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ARCHITECT
& BUILDING NEWS

30 SEPTEMBER 1959 VOL. 216 NO. 8 ONE SHILLING WEEKLY

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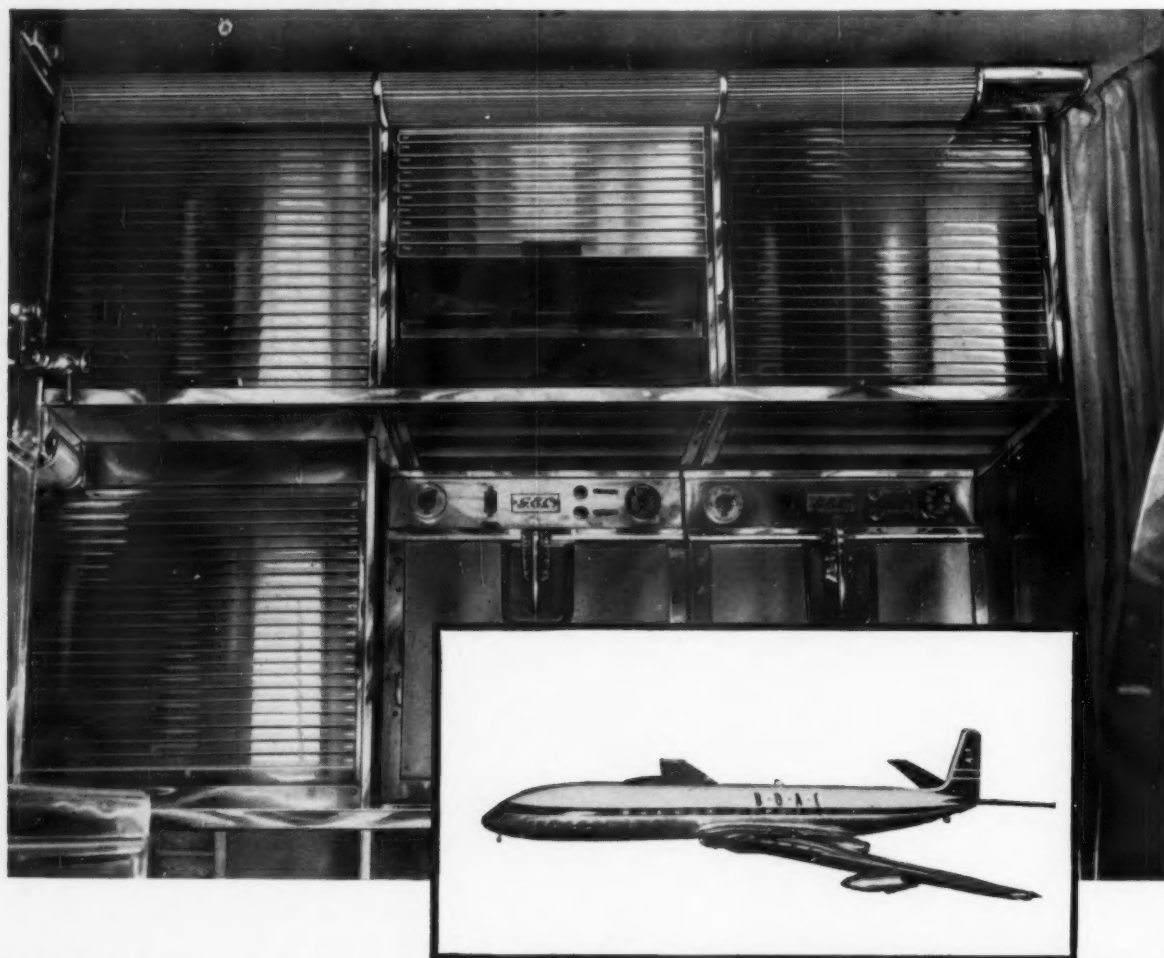


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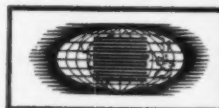
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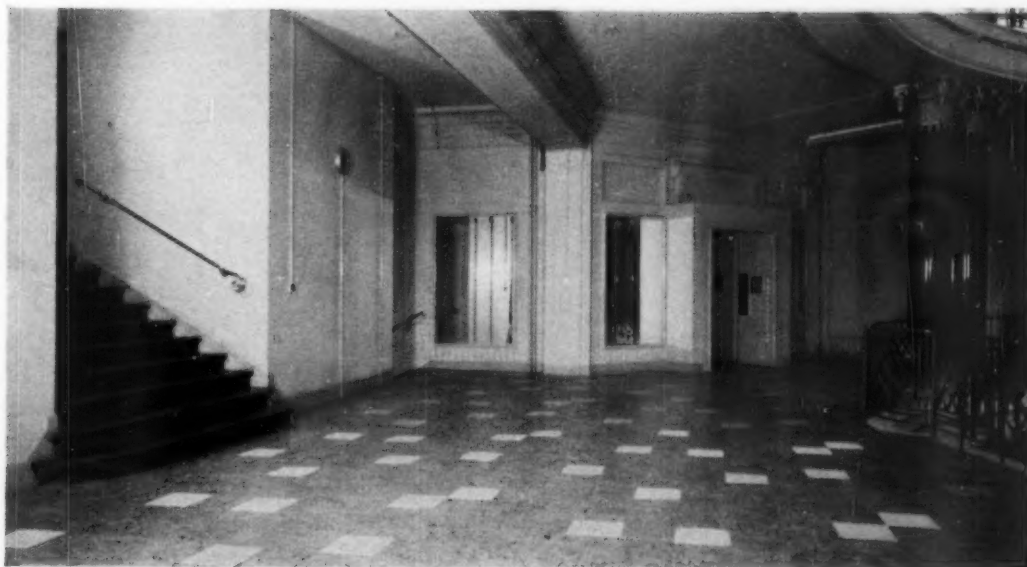
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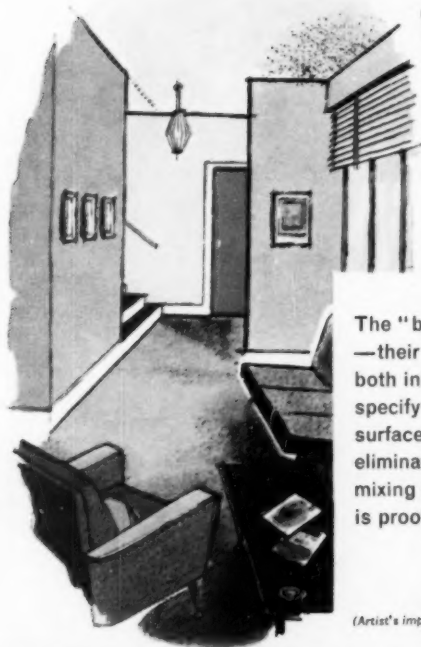
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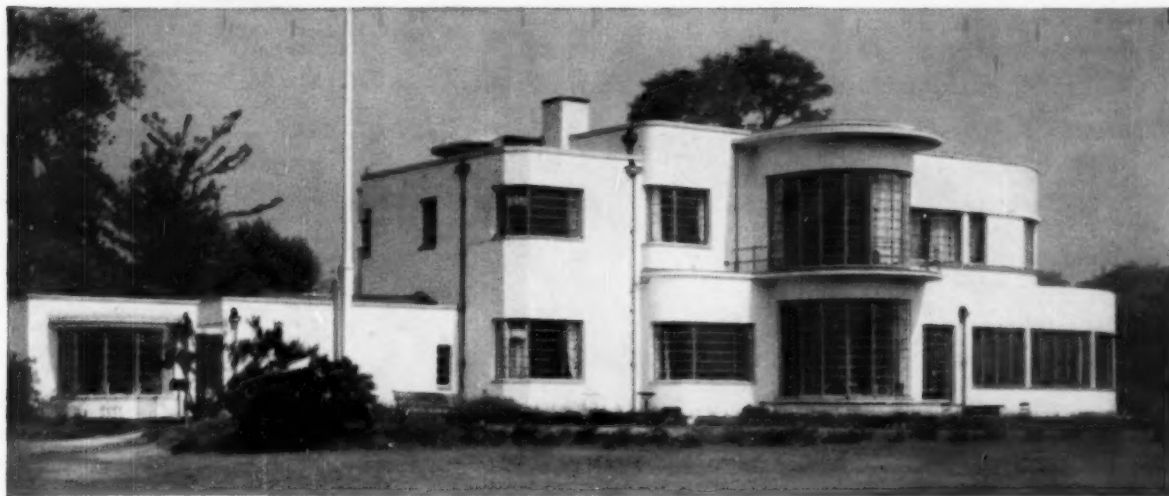
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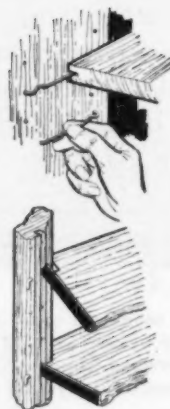
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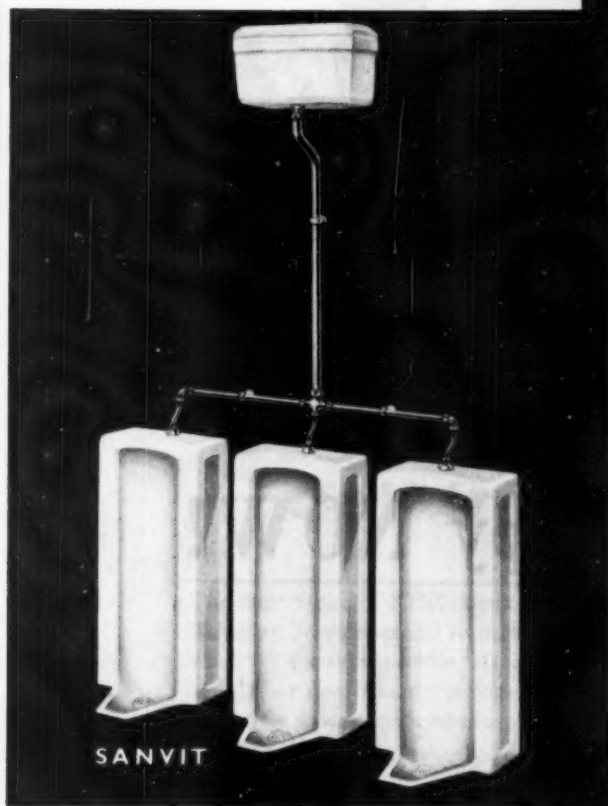
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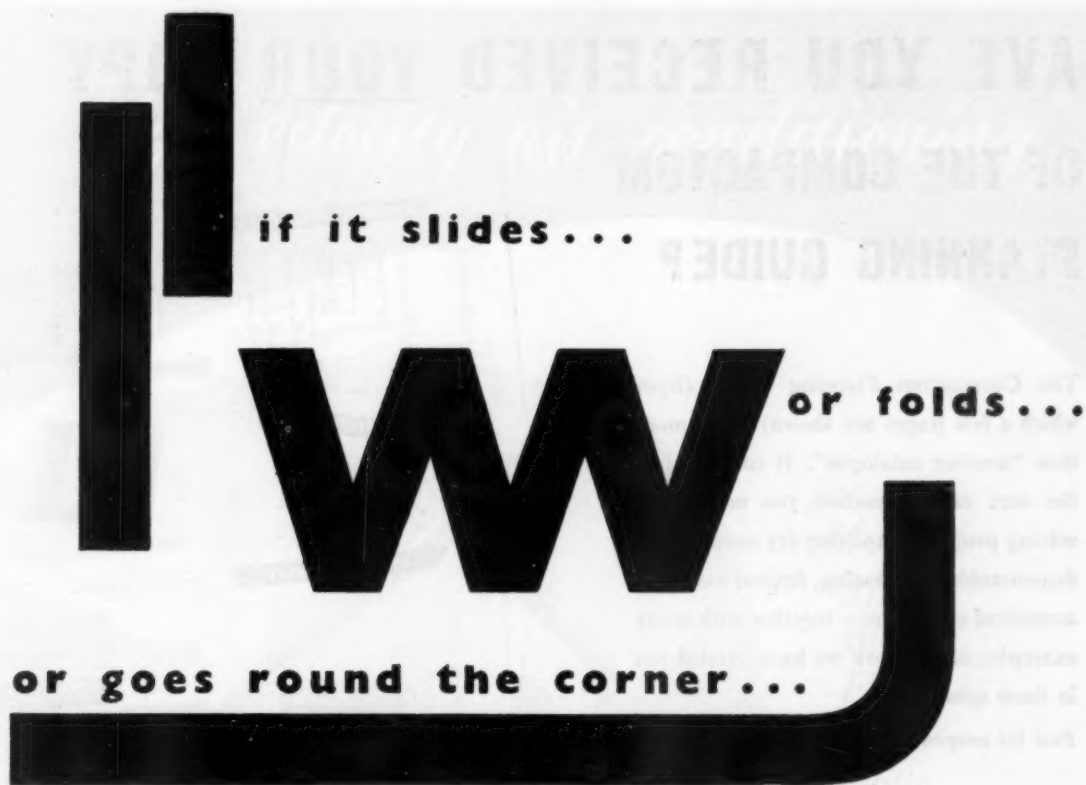
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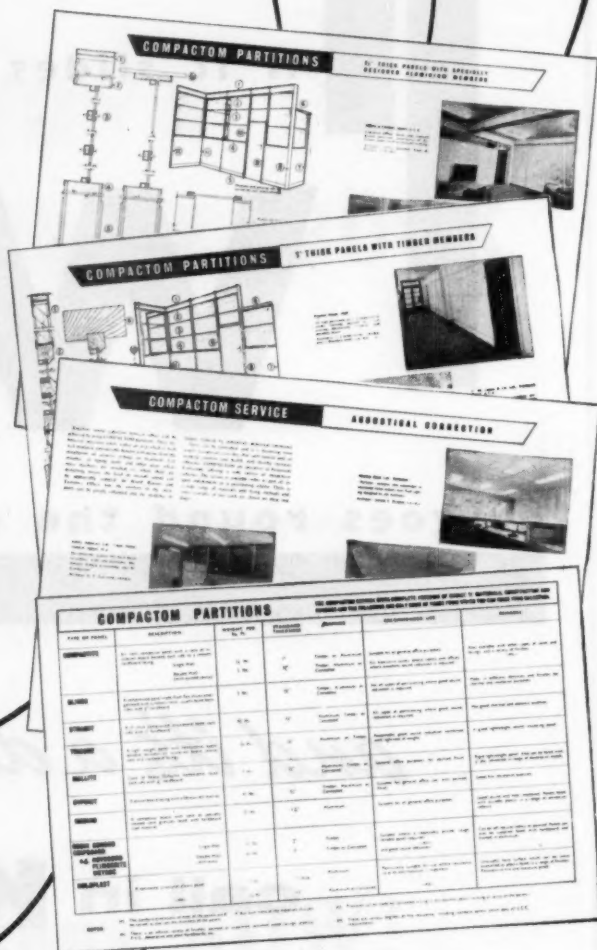
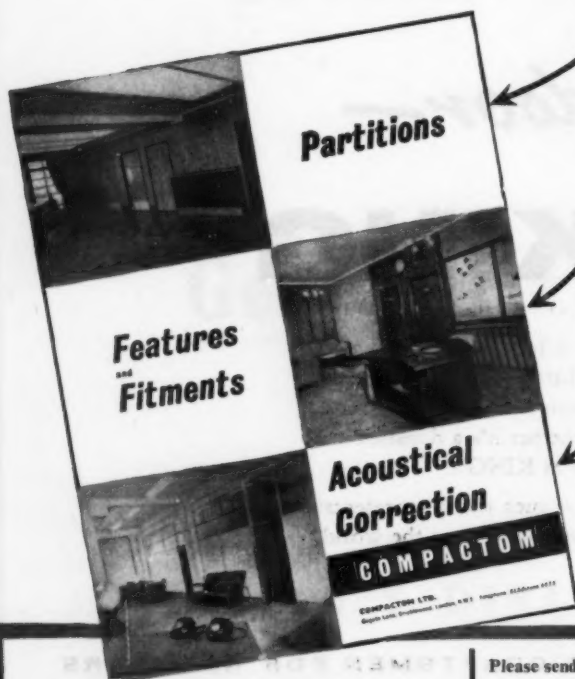
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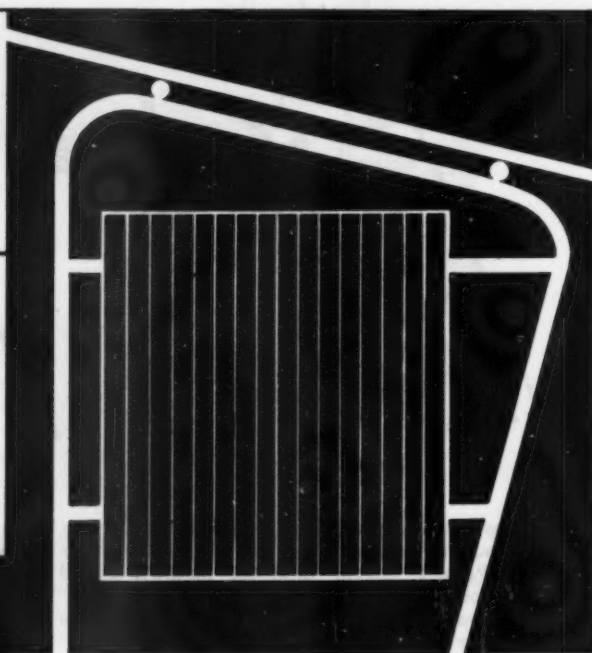
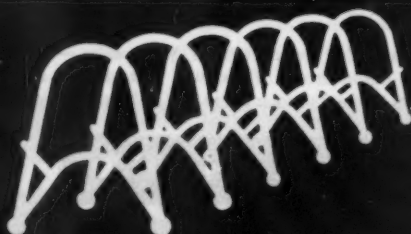
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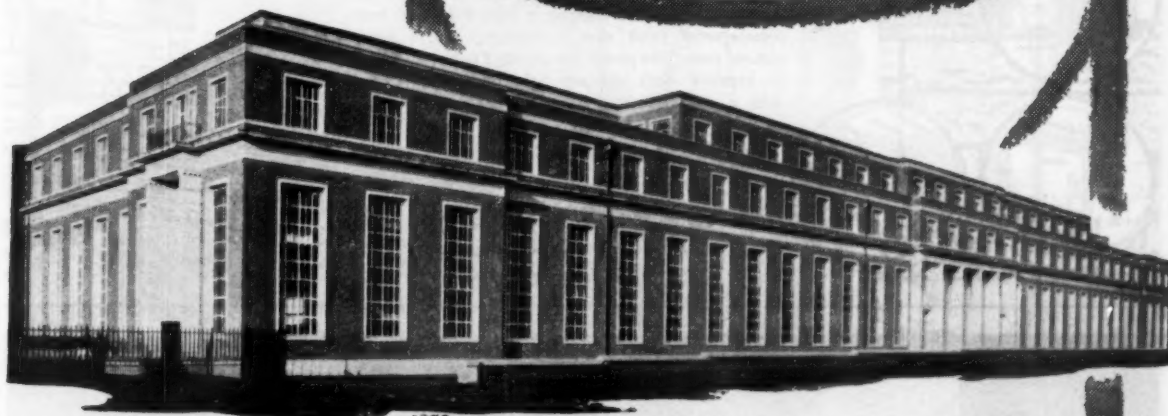
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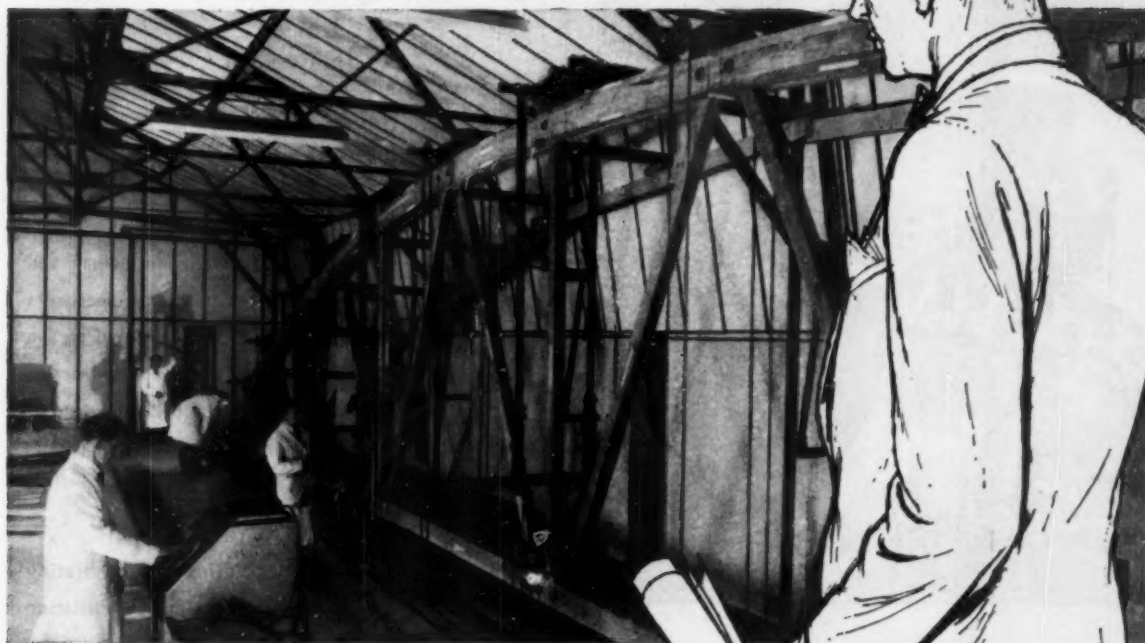
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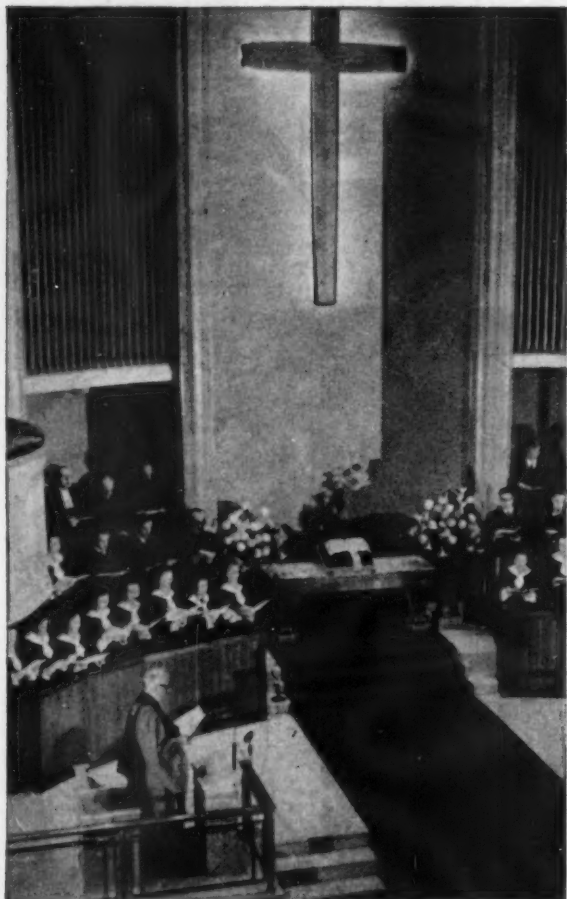
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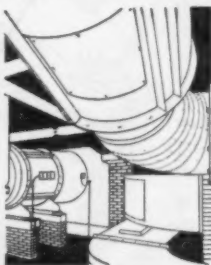
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Olympia London

18 November 2 December 1959



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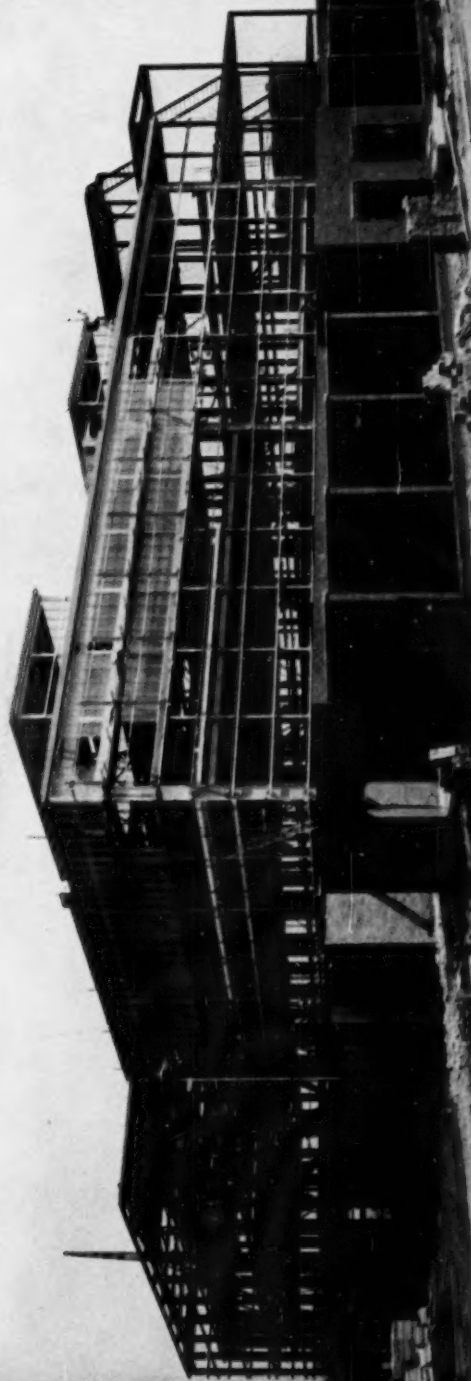


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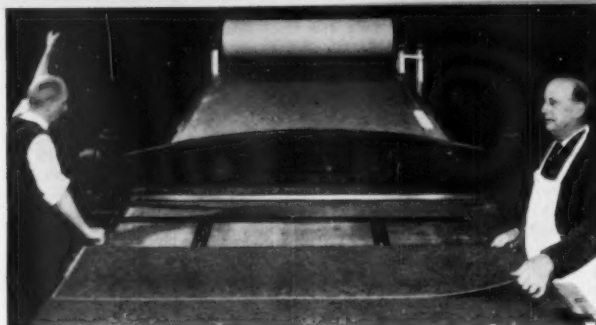
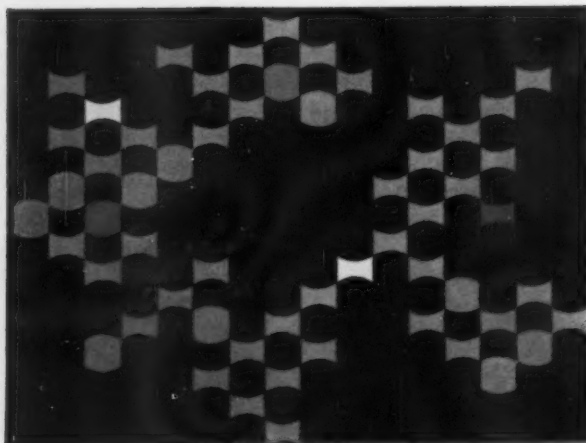
Tees Side

This is the second in a series of articles designed to interest and inform architects on the techniques and scope of linoleum opportunities open to them with modern linoleum floorcoverings.

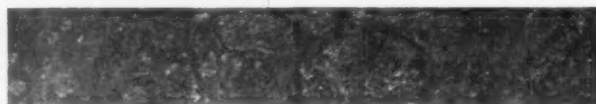
linoleum contractors' techniques

To an increasing extent in the last few years, flooring contractors have cut linoleum into tiles instead of laying it in the form of sheet; some of them say that they use tiles for 90% of their work. This article explains some of the reasons for the change and suggests ways in which the architect can turn this new flexibility to advantage.

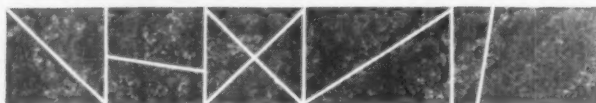
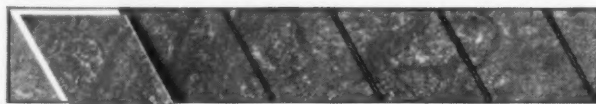
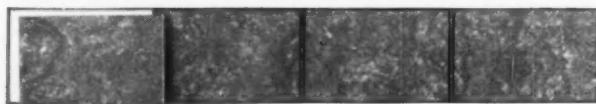
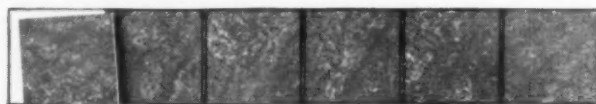
Linoleum in sheet form is still cheaper to lay when large unobstructed areas are to be covered; but when faced with complex outlines and central pillars, especially in cramped areas, flooring contractors have found that they can install tiles with very little waste of material, and at costs that are competitive with sheet linoleum. It is here that some knowledge of the contractors' techniques and working methods can help the architect to design interesting floors and still keep down costs.



Photos of guillotining and die-cutting: Courtesy E. J. Elgood Ltd.



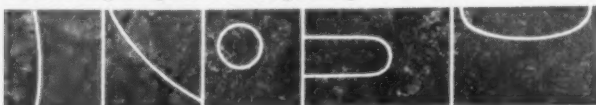
Cutting tiles The contractor uses a guillotine to cut 'slabs' of linoleum across the roll, wide enough to allow a small margin for trimming the tile later. The tiles themselves can be hand-cut by knife—a slow and expensive process—guillotined, or die-cut.



Guillotining Hand-operated or power-driven guillotines can cut squares, oblongs and triangles almost equally economically.



Die-cutting Some contractors have semi-automatic machines that cut tiles up to 18" square in one movement. These machines also accept special dies to cut other shapes—such as those below—simultaneously with the rectangular tile. (Both parts of the tile should be used in the design to minimise waste.) The design of such shapes should avoid running the shaped cutter into the corner of the tile, where it would create strong side pressures during cutting.





Strip cutting Lacing strips and border strips, in widths ranging from $\frac{1}{2}$ -inch to 18 inches, are used to form decorative effects or borders. (For use as borders, they are cut slightly wide to allow for fitting to irregularities of the wall line.) The cutting machine slices almost through the thickness of the linoleum to make the strips, which are then finally separated as required by the layer on site.

Economical tile sizes Since linoleum is delivered in rolls 72 inches wide, contractors find the following sizes the most economical to cut:

NOMINAL: * 9 inches, 12 inches, 18 inches, 24 inches, 36 inches.

* Actual sizes are approximately $\frac{1}{8}$ -inch less than the nominal sizes of all purpose-cut tiles.



THE USES OF SHEET LINOLEUM

This article does not, of course, set out to show that tiles have entirely replaced the traditional way of laying linoleum in sheet form—even where the architect wants to introduce designs in his floor. Below are three ways of using sheet linoleum in individual situations:—

Hand-cut designs Linoleum is easier than most floor coverings to cut into individual designs, and cutting by hand offers the designer the greatest possible freedom of treatment in producing a spectacular floor like the one shown below. At such a focal point—it was, in fact, John Piper's 'Baroque Room' in *The Observer's* Film Festival—the extra cost would be amply justified.

Courtesy Design magazine



THE SYMBOL DESIGNED BY RAYMOND LORWY
Courtesy International Harvester Company
of Great Britain Limited

Hand-cut motifs Most contractors employ craftsmen who will enjoy reproducing in linoleum a motif like this one, being laid in the entrance hall of International Harvester's offices in City Road, London.

Repeated motifs hand-cut by template For special purposes, the contractor can make a hardboard or metal template to cut out several motifs—and the corresponding spaces for them in the background colour.

NAIRN DESIGN BOOK

A full-colour book illustrating new directions in floor design will soon be available to all interested architects. If you would like to receive a free copy immediately upon publication, please write to: Michael Nairn & Company Limited, P.O. Box 1, Kirkcaldy, Scotland.

NAIRN MELOTONE LINOLEUM

The new range of colours of Nairn Melotone Linoleum, consisting of 8 muted shades with softly blended marking, is illustrated on the right-hand edge of this page, together with a selection of colours from the plain and marble ranges in 4.50 mm gauge. A large selection is also available in 6.70 mm gauge. Please write for information to one of the addresses below or consult your technical representative.

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HOW DORMAN LONG UNIVERSAL BEAMS SIMPLIFY FABRICATION

The illustration on the left shows a new extension for Whessoe Ltd. of Darlington, covering an area of 295 ft. by 90 ft. wide, with an eaves height of 57 ft.

The portal-frame roof structure (the central portion being steeper to take glazing) is formed throughout from Universal beams, the vertical members being 36" x 16½", weighing 260 lb. per foot, and the central rafters of 24" x 12" site-welded to the tapered elbows.

Universal beams, again 36" x 16½", were site-welded and support the runways for two 40-ton capacity cranes of 80 ft. span, the columns being connected by tie-beams of 12" x 12" universals.

The steelwork was carried out by Redpath Brown & Co. Ltd., Edinburgh, who saved a good deal of time and labour by using universal sections which



eliminated the need for compounding.

Dorman Long Universal beams are being used to bridge wide spans hitherto needing built-up girders, thereby saving a great deal of plating, compounding and other labour, in addition to saving steel.

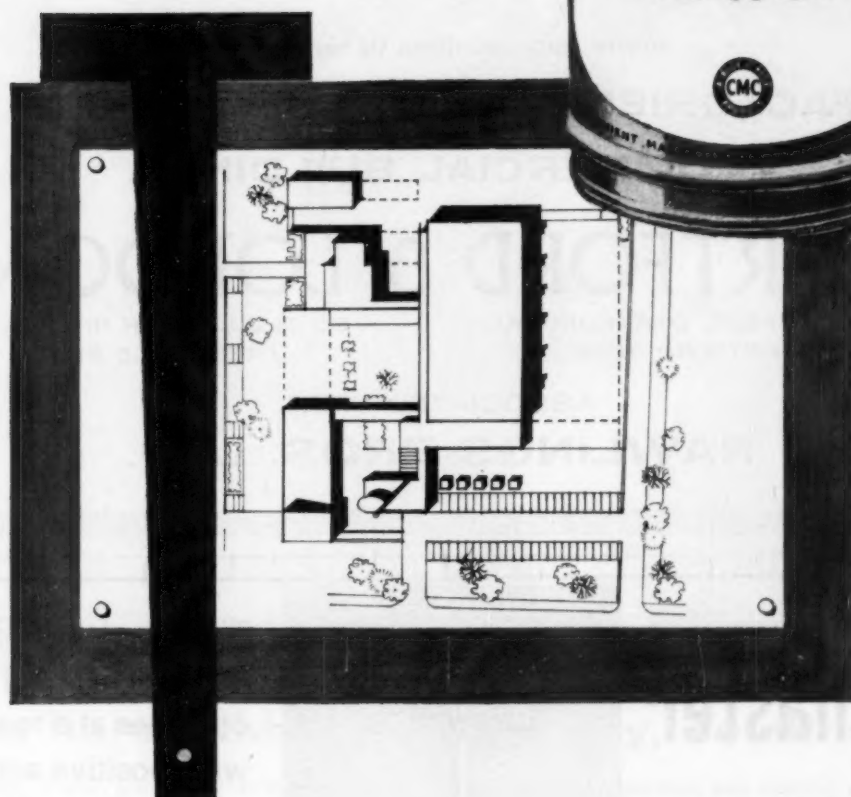
The illustration shows a road bridge in course of construction on the Catterick by-pass (A.1. Trunk road) built for the North Riding of Yorkshire C.C.; in this, D.L. Universal beam sections are employed practically as they left the mill, resulting in a substantial economy in fabrication.

Other sections from the Universal Mill include much-needed H sections; these are available in different weights for columns of multi-storey buildings, thereby avoiding the usual plating at the lower storeys.

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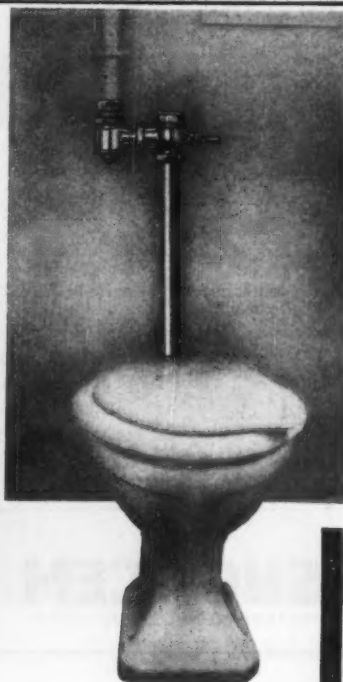
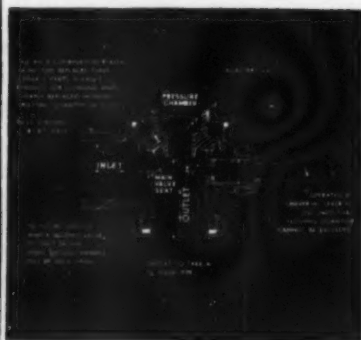
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bridges and reservoirs and housing estates and hospitals, and laying railway sidings. Just about everything you can think of, sir. I expect they get so much to do because they're such jolly quick workers. Don't you, sir?"

"If you'd use a little less breath for talking and a little more for running, Tomlinson, we might possibly get back to school before the rest of the hounds finish up the crumpets."

Henry Boot

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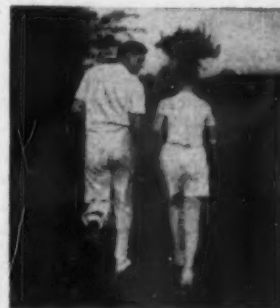
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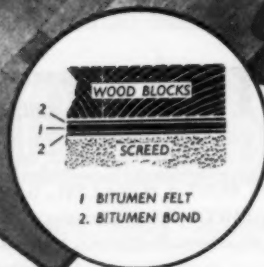
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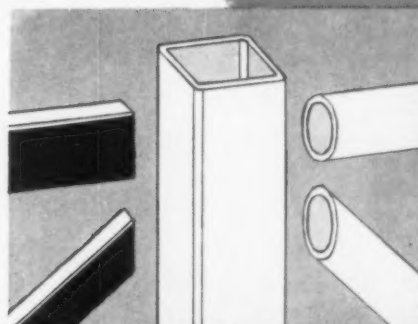
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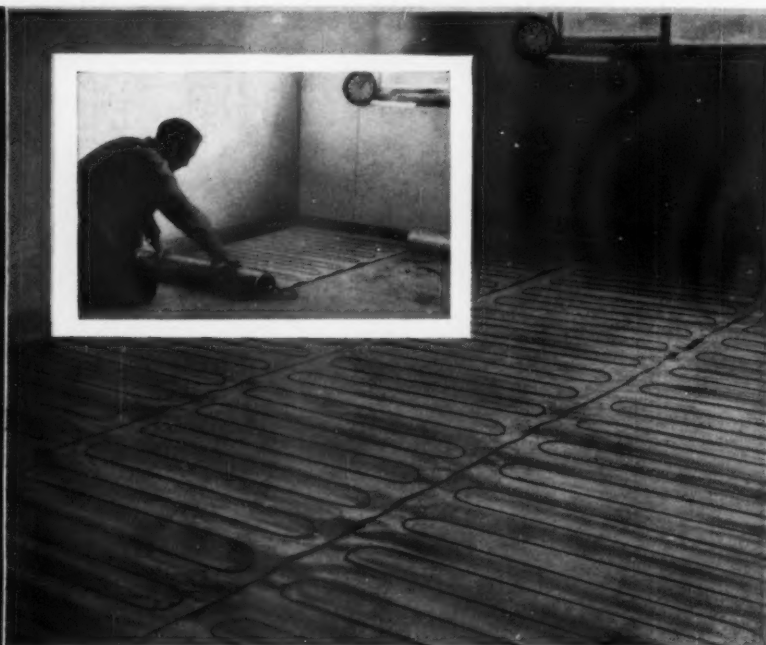
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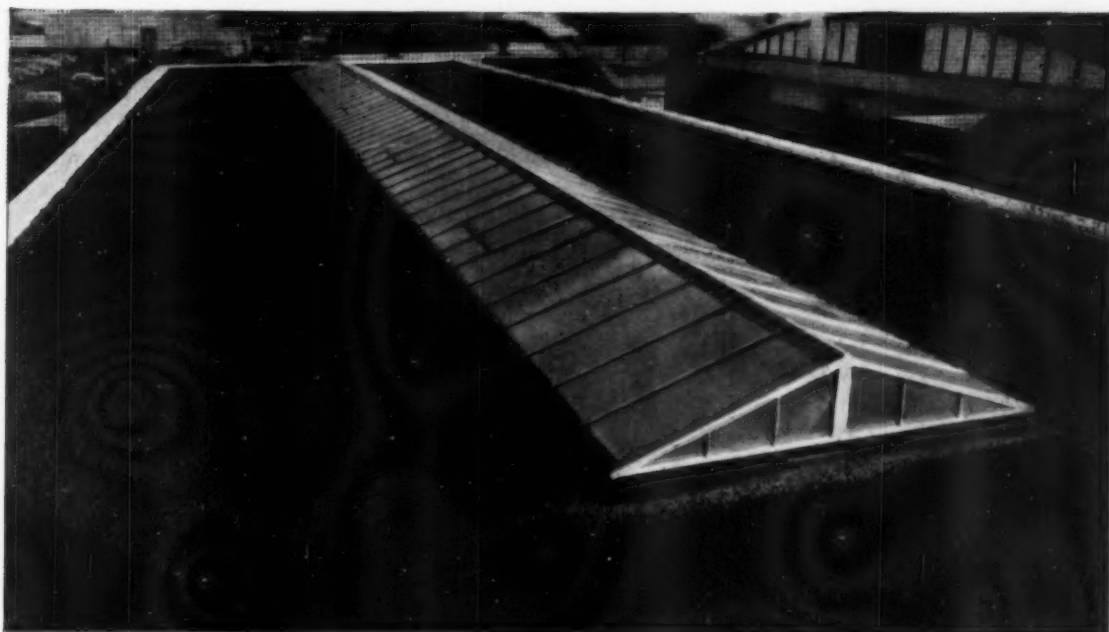
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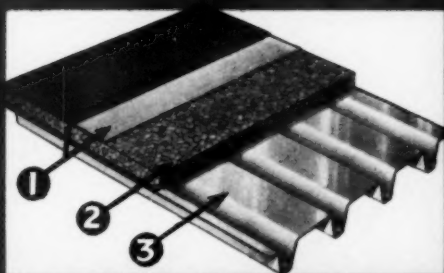


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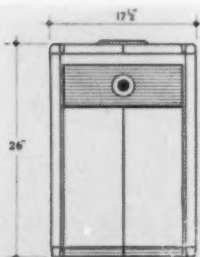
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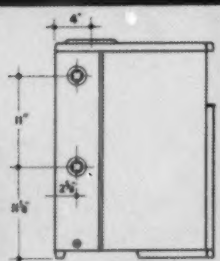
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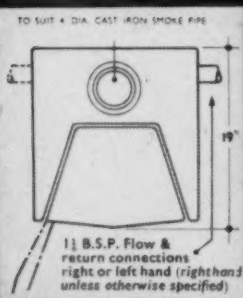
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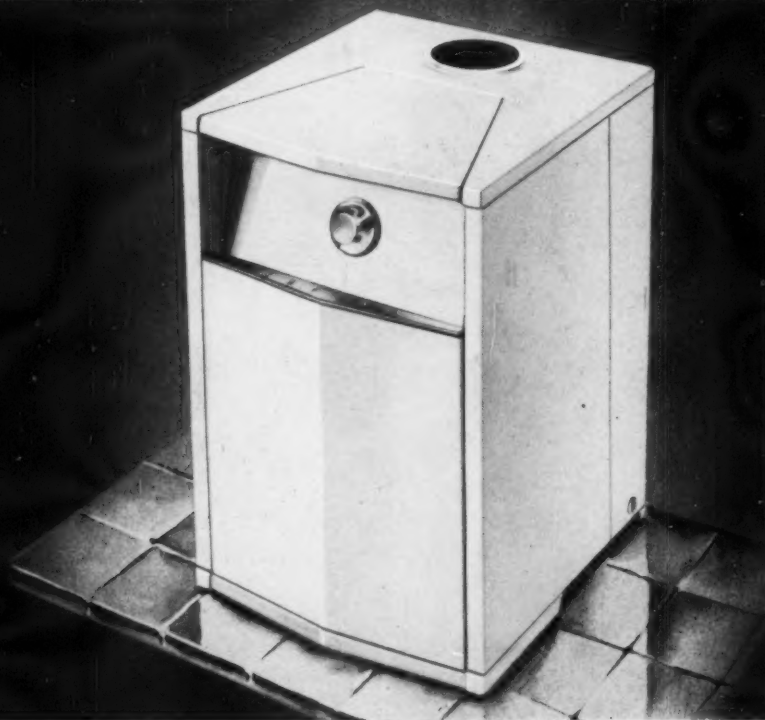
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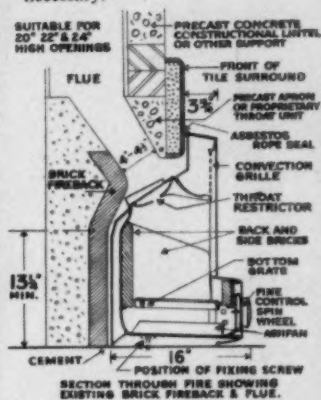
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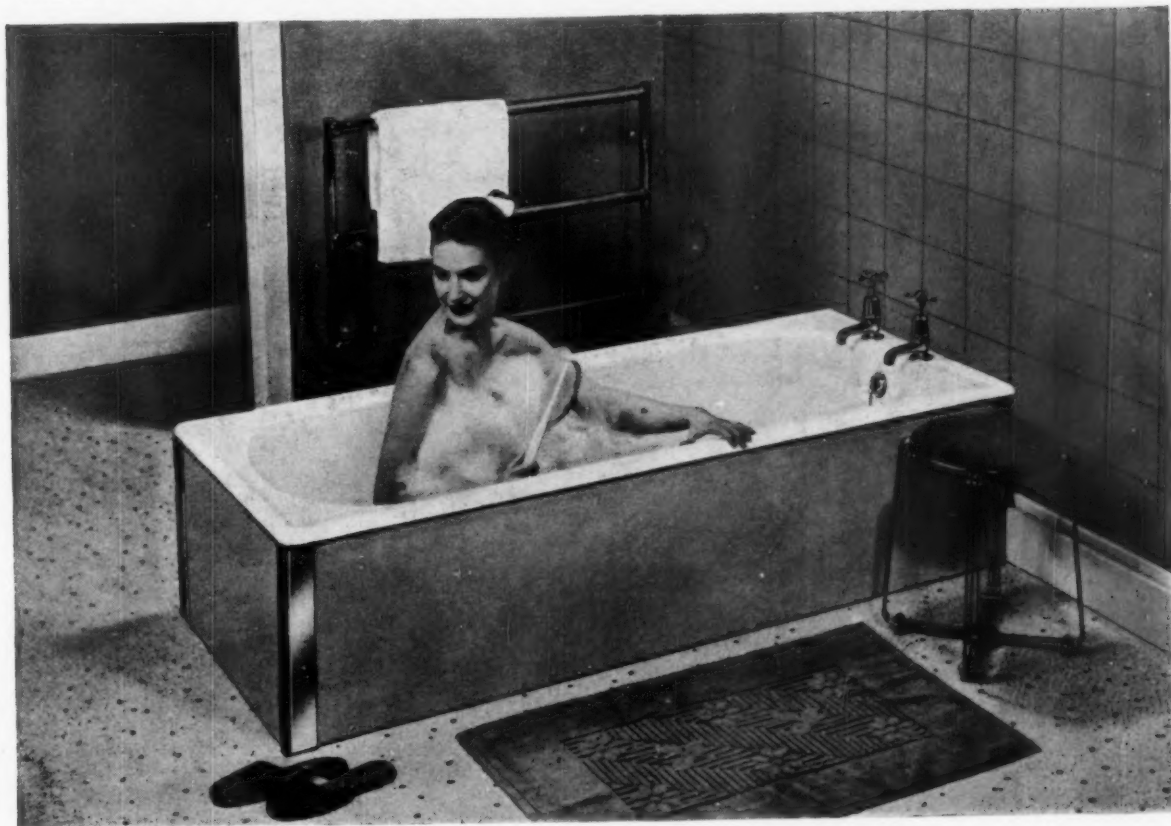
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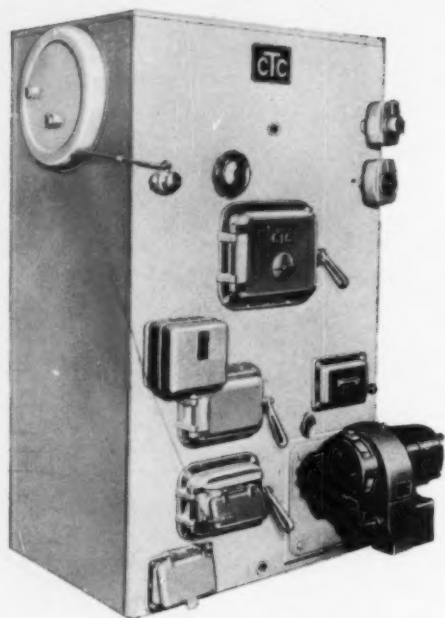


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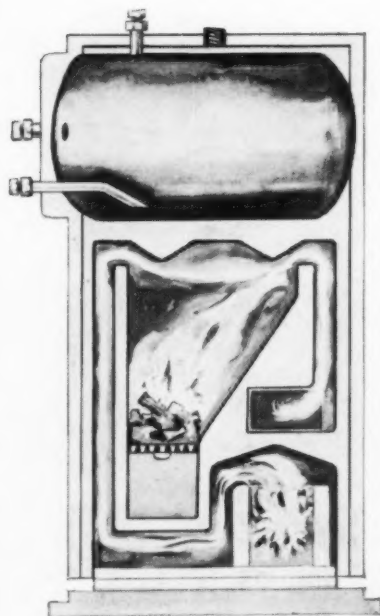
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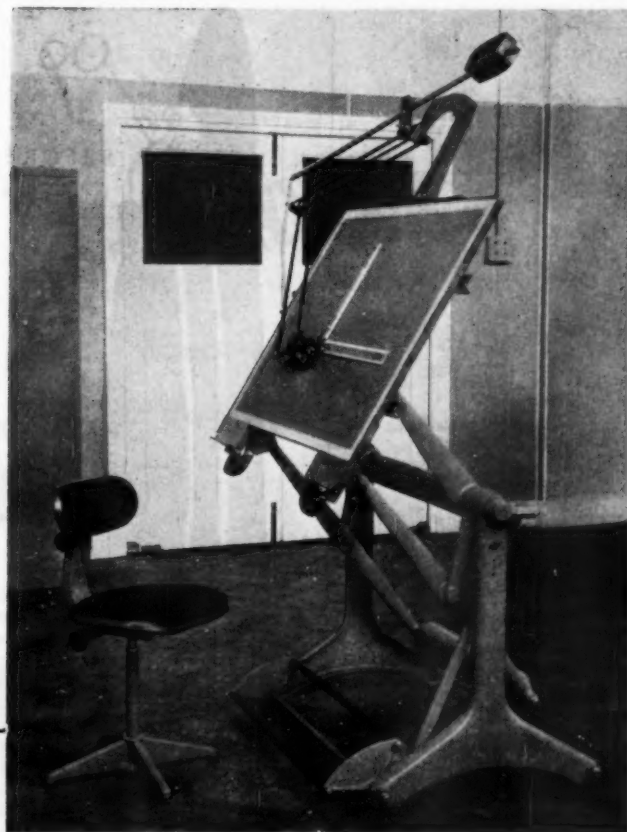
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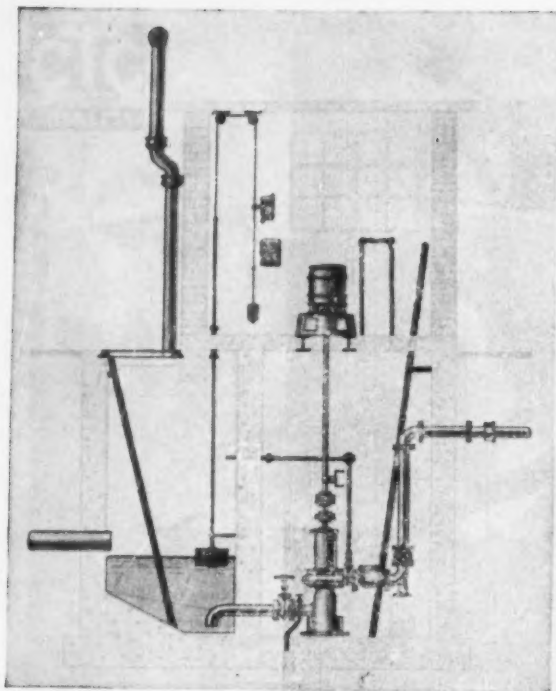
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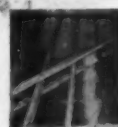
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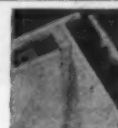
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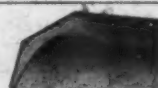
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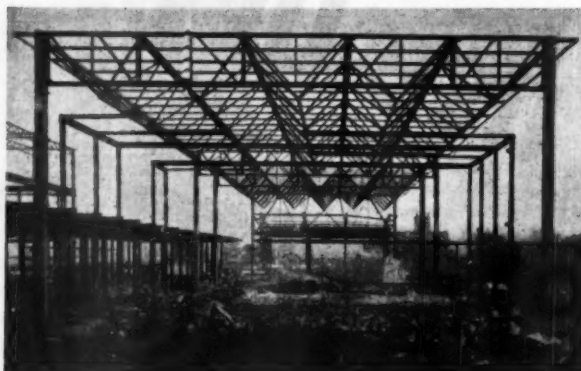
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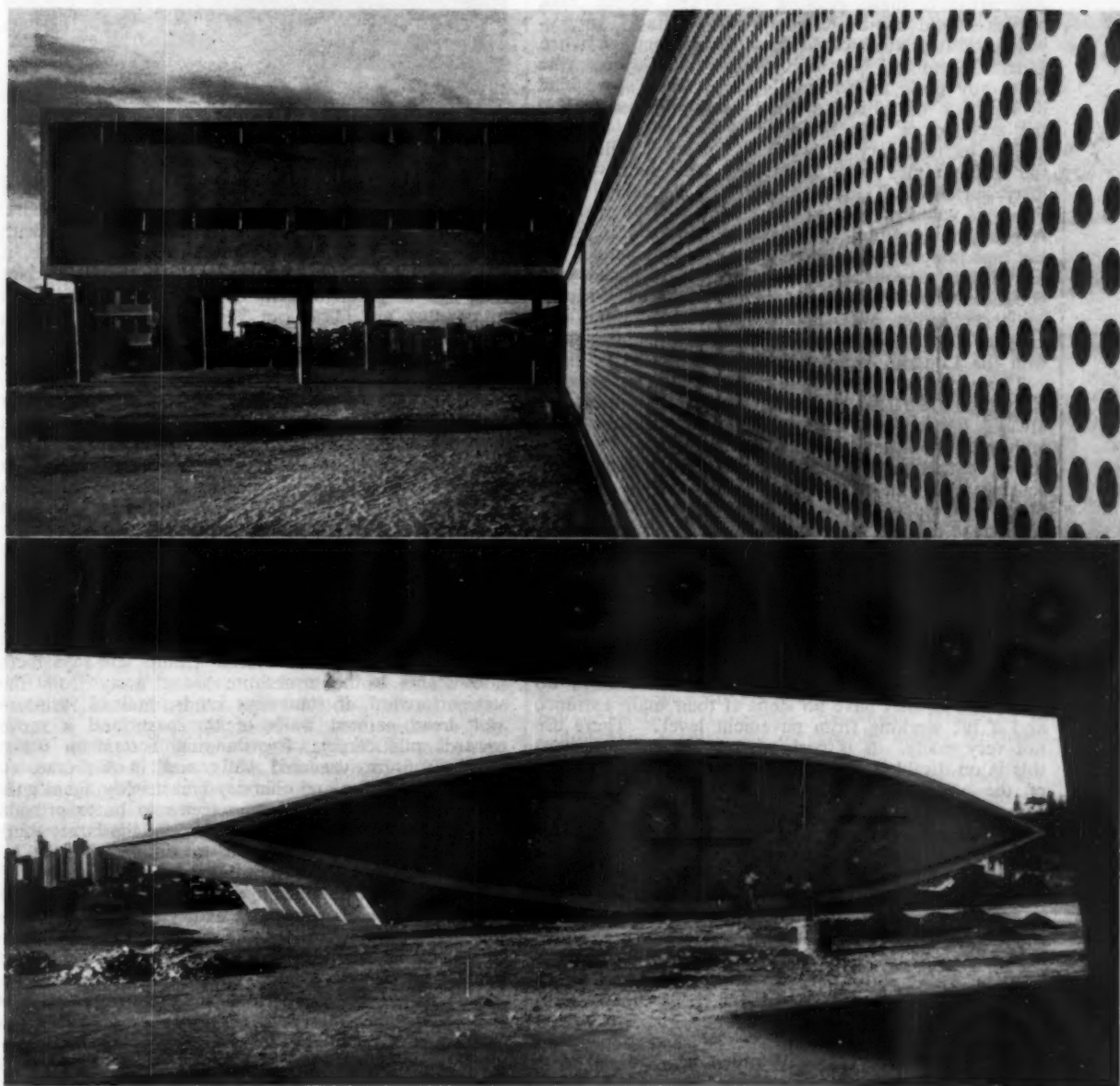
Vol. 216 No. 8

THE ARCHITECT & BUILDING NEWS

30 September 1959

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A modern school at Belo Horizonte, by architect Oscar Neimeyer. Because of the extremely bright sunshine, windows have been omitted; bull's eyes in the wall give a diffused light. The school assembly hall (below)

EVENTS AND COMMENTS

SUNDAY MORNING IN THE CITY

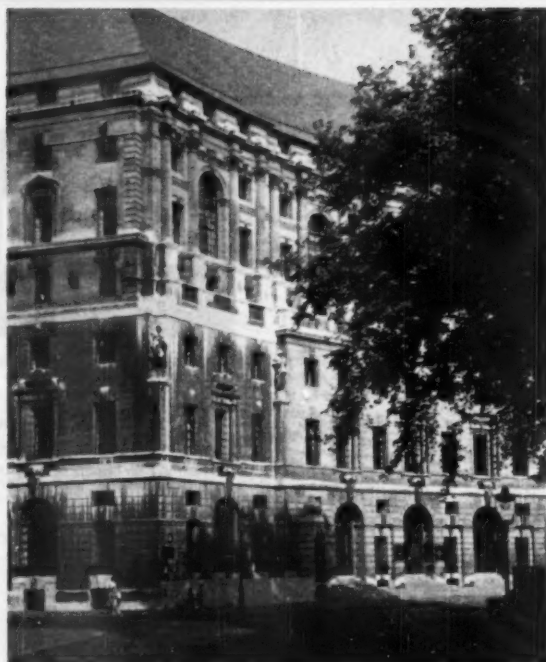
It is perhaps unfair to look at office buildings on Sunday when they are closed and deserted, and when there is no traffic and little to distract the eye from the architecture, and the dirt. In spite of the strictures on architecture in the City of London there are here and there some quite good buildings, but almost without exception their owners or tenants fail to make the best of them. It is not just a question of dirt, and it is not always the fault of the occupant. To begin with, all these acres of glass are not suitable for all types of occupancy. Warehouses holding stacks of cardboard boxes do not need ribbon windows. Alternatively, junk, packing cases and empty milk bottles should not be left on window cills. The provision of lightly obscured glass is not enough when general untidiness prevails within. Any owner who takes any pride in his building must keep some kind of a check on blinds or the result will quite spoil the architecture. In buildings with curtain walls it is just as necessary to wash the panel infilling and the main frames as it is to clean the windows. A dirty curtain wall looks terrible. This discipline is the price we must pay for convenient, well-lit interiors. A good, modern building can take a little indiscipline, but not much, a mediocre one can take none. If we wish to present an urbane face to the street with goodness knows what mess behind, nor what inconvenience, either we should have a building like Lutyens' Britannic House, in Finsbury Circus, which won the London Architecture Bronze Medal in 1925.

Those modesty curtains in modern flats are a curse. It is high time that architects realized that they will always appear no matter what the aspect. The architect should allow for them, either by very strong patterning as in Denys Lasdun's Paddington scheme or by the use of bright colour as in the high block in Golden Lane—the duller colours in the low blocks are far less successful.

It will, I fear, be a long time before architects are helped by the inmates of new office buildings or blocks of flats. Perhaps it is the architects who are wrong. Britannic House has a wonderful façade.

THINK OF THE DISABLED

How many hotels and other public buildings do you know of that have no steps at their main entrance and a lift working from pavement level? There are not very many. It is perhaps not realized how hard this is on disabled people and on the growing number of the aged. A professor at Columbia University, who suffered from poliomyelitis, has written a book about his recovery and in it he has some hard things to say about architects and flights of steps. He thinks that the only reason that steps are used is to gain architectural effect. Although this is sometimes true, it seems to me that it would be silly to introduce a building code, as one American State has done, which "eliminates some of these architectural hazards and barriers". We have not yet reached the state when we have a majority of disabled persons in our communities. I think Mr. Le Compté's remarks would have carried more weight if he had asked for alternative routes for the disabled when faced with steps. Such provision should be demanded in all competitions for public buildings. Many picture



Lutyens' Britannic House, Finsbury Circus.
See "Sunday Morning in the City"

galleries provide wheeled chairs for invalids, but they do not all have lifts to take invalids up to the chairs. Private buildings also offend and London clubs, with their enormous staircases, more than most. Some, it is true, have an ancient lift hidden in a corner. Not long ago in a magnificent City Company hall I had to conduct an infirm but very distinguished foreign architect to such a lift. We approached the reception held in his honour through two serveries and the unlighted dining hall.

Public transport administrators should also consider the problem. Escalators and lifts are fine, but there are still many fixed steps on the underground. As long as we are moderately fit we nip up them without realizing that this very convenient method of transport is barred to many people. Escalators from pavement to platform would be ideal.

CARAVANS AT EARLS COURT

Walking round the first International Caravan Exhibition at Earls Court, my agent was amazed at the contrast between the trim, well-designed exteriors and the appalling things to be seen within. He says there now seems to be a definite swing away from the straightforward, if somewhat crude, built-in furniture and cream-painted walls of the past, and a move towards pile carpets, free-standing Tottenham Court Road furniture, veneered walls, and, in one case, an imitation coal fire and chimney-breast. My agent goes on to report: "The intention seems to be to provide a 'homey' atmosphere. The makers of the larger touring caravans, over the legal maximum of 22ft by 7ft 6in, now call them 'mobile homes'. They are still on wheels, and are either towed by special arrangement with the police or carried by haulage contractors on a low loader. In America these mobile homes are made up to 50ft by 10ft wide and are provided with hot and cold water, central heating, air conditioning and bathrooms with full-sized bath, basin and w.c. connected by flexible couplings to the drainage. The positions of electrical, water and drainage connections are standardized, so that a mobile home can be quickly plugged-in on any American site.

"This seems to be the direction we are moving in

this country. Electric lighting, cooking and heating are common, and in this exhibition, some of the caravans have air conditioning and complete bathrooms. The largest caravan was 32ft by 10ft, and one ingenious design, using two caravans coupled together sideways, measured, overall, 18ft by 15ft."

I believe some 250,000 people now live permanently in caravans, and the demand is growing. As the larger caravans are now becoming roughly the equivalent in size and equipment of a small flat, it must be becoming increasingly difficult to class them as sub-standard living accommodation. My agent thinks planning authorities will be forced to be more realistic, and will need to carry out careful planning surveys in order to find really suitable parks, having regard to amenity, so that long-term planning consents may be offered. How ghastly!

LIVERPOOL CATHEDRAL COMPETITION

Details were published in last week's issue of this monumental competition. The assessors are the Roman Catholic Archbishop of Liverpool, Basil Spence and David Stokes. Here is a wonderful opportunity to design a piece of real architecture. Let us hope that there will be a record entry and that all the best architects, both young and old, will go in for it. Hard things are being said about the competition system in this country. Here is a chance for competitors and jury to prove that it can still produce outstanding buildings. The prizes are £5,000, £3,000 and £1,000, and the job is worth a million.

THE BUILDING EXHIBITION

There are less than two months before the opening of the Building Exhibition at Olympia. The pattern will be the same as usual, but bigger and better. By tradition, the exhibition is opened by the Minister of Works—and it will be interesting to see who *that* is—under the chairmanship of the P.R.I.B.A.

I hear that every available inch of space has been let for months, an interesting development being the number of foreign firms wishing to exhibit. As it is, there will be contributions from Finland, Spain and Portugal; while African timber and a number of European and Commonwealth products will also be shown.

SCHOOLS IN ESSEX

The Essex Education Committee has published a booklet illustrating its new schools. It is called "Special Building Supplement—5" and is dated July, 1959. It is an impressive record. Schools and extensions built since the war 233; children housed 104,120—almost 37 per cent of those of school age in the county. You may not now remember, but 1958 weather made it the worst building year in living memory. In spite of this 32 new schools were completed. Of these 19 were designed by the County Architect, three by borough engineers and the remainder by private firms, the last two categories working in association with the County Architect. The booklet is fully illustrated and shows that Essex is second to none in the quality of its schools. One small criticism, which has nothing to do with the architect's work, is that not a single piece of sculpture is to be found in the whole book and I can only see one small mural. Here is an improvement that Essex *could* make. Nevertheless, it can be proud of its Education Committee, and its County Architect.

ABNER

Letters to the Editor

Sunny Manchester

Sir,—I read with much interest and appreciation the delightful "Sunny Manchester" under "Events and Comments" in your issue of September 16: your contributor's comments were a fair summing-up of the architectural state of Britain's second city, so far as my own limited knowledge (as a member of the Georgian Group and the Victorian Society) allows me to judge them.

I am very puzzled by your correspondent's reference to the horses. Much as I like horses, which are far more romantic and interesting than motor lorries, I am afraid that your correspondent has gone adrift on this point. There is only one firm in Manchester which uses horse transport and that is T. Huskinson & Sons, carriers and safe removers. They have 14 horses and I can only think that he saw them all at once in the lunch hour at their point of congregation in Chorlton Street, Manchester. I myself have only seen one horse in the last three years in the city streets.

Your contributor's second paragraph, clearly written as "fun and games", amused me greatly. I am only concerned lest any reader might think he meant it seriously. That would not do: my little booklet, to a copy of which any reader is welcome if he cares to write to me, was intended to assist entrepreneurs (for want of a better term) to decide in which British city to put up their new premises or branch offices, and all the statistics in it were taken from public books of reference compiled by independent authorities. The truth of this is conclusively shown by the fact that we have issued six thousand copies to all the "top people" and companies, and none of the figures has yet been questioned.

Yours, etc.,

TERENCE F. USHER,
Information Officer,
City of Manchester.

Goodbye to Sunflowers

Sir,—Rather belatedly, a comment by "Abner" in your issue of March 25, 1959, has been brought to my notice. In this he mentions, apparently with some regret, that most people (aspiring to culture) tend to buy prints and copies rather than originals which would be within their resources.

He may be interested to know that here people do quite commonly purchase the works of the younger and unknown artists. For example, of all the architects in Wellington (even those young and struggling themselves), I think there would not be one who does not own at least one original, be it painting, hand-made lithograph or sculpture of wood, stone or ceramic, mostly purchased directly from the artist concerned.

In this city (population approximately 280,000) there are, to my knowledge, eight commercial art galleries, to say nothing of several coffee shops, all displaying works of art for sale.

Our own gallery, which is non-profit making, and run by a voluntary committee, devotes about 75 per cent of its time and resources to showing the works of young and unknown artists. Our sales turnover from this is relatively substantial. The rest of the time is given over to shows from overseas, and established artists, and collections of pottery, books, manuscripts, photography, furniture and commercial art material. We put on a new show every fortnight.

Yours, etc.,

VALERIE MORRIS,
Honorary Secretary,
The Architectural Centre Gallery,
Wellington, New Zealand.

SELECTIVE TENDERING : A CODE OF PROCEDURE

The Joint Consultative Committee of Architects, Quantity Surveyors and Builders have published a code of procedure for selective tendering. The full text is published below with the omission of the introduction and the appendices. The code assumes the R.I.B.A. Form of Contract, where quantities form part of the contract, would follow tendering

The List of Tenderers

Once it has been decided that a builder is to be selected by competitive tender there is but one way in which the list of tenderers should be prepared. From all the firms that are considered, or from those firms that reply to an advertisement inviting consideration, a short list should be carefully made of those of established skill, integrity and responsibility, and with a proved competence for work of the character and size contemplated. The selection should be made upon the advice of the architect, and with the approval of the building owner. Open tendering, that is, inviting tenders from all that reply to advertisements, is deprecated. The object of selection is to make a list of firms, any one of which could be entrusted with the job: if this is achieved, then the final choice of builder will be simple—the firm offering the lowest tender. Only the most exceptional cases demand departure from this general recommendation. Even when an early completion date is of the utmost importance to the building owner, it is preferable that the most convenient date for completion be specified in the tender documents, and that all tenderers make offers based upon the same period of construction: it is unreasonable to expect builders to guess how the building owner may value time saved in duration of the works against the additional cost of accelerated work.

The size of the short list may be limited by the small number of firms who satisfy the required qualifications. When this is not so, an average list should include about six names, with fewer for smaller works and more for larger ones, and an absolute maximum of twelve names for very large contracts. It should be appreciated that the cost of tendering is a not inconsiderable element in the cost of building: the larger tender lists become the greater will be the cost of abortive tendering, and this must be reflected in building costs; if the average length of tender lists is reduced, then building costs will be correspondingly lowered. When the list has been settled one or two names should be appended in order that they may replace any firms on the list that do not accept the invitation.

Invitations to Tender

In order that builders may be able to decide whether they will tender, and to anticipate demands on their tendering staff, each firm on the short list should be asked whether it is willing and able to tender. They should answer within a stipulated time, so that the reserves may be called upon if necessary. The letter inviting the builder to tender should be sent by the architect, and should contain:

(a) the names of the building owner, the architect, the quantity surveyor and any consultants with supervisory duties;

(b) details of the form of contract to be used;

(c) the location of the site;

(d) a general description of the works and an outline of the method of construction, sufficient to enable tenderers to assess the character and size of the contract;

(e) the proposed starting date at the works. If time is to be the essence, this should be made clear to tenderers. The time for completion should be stipulated, and not made a subject of competition;

(f) the proposed dates for the dispatch of the bills and submission of the tenders;

(g) a provision that acceptance of an invitation to tender is to bind the tenderer not to disclose his tender to any person or body before the time for receipt of tenders.

(h) a request that each tenderer states how many

unbound copies of the bills, or sections of the bills of quantities, would be required in addition to the two copies it is proposed to send.

(i) the latest date for the acceptance of the invitation.

The Tender Documents

When answers to all invitations have been received, the list of tenderers will be finally settled. On the day stated in the invitations, all tender documents should be dispatched. These documents should include:

(a) two copies of the complete bills of quantities, together with any additional copies or sections which may have been requested;

(b) reproductions of general arrangement drawings sufficient to indicate the character, shape and disposition of the works, to be used solely for the purpose of explaining the nature of the scheme;

(c) two copies of the form of tender;

(d) one addressed envelope for the return of the form of tender, with an endorsement naming the job.

(e) instructions for return of the tender;

(f) if the tender is on a fluctuating basis, the date on which basic prices are to be determined: this date should be some days before the date for submission, in order that hurried, eleventh hour alterations are avoided.

Form of Tender

The Form of Tender should be sent in duplicate, in order that tenderers may retain a copy of their offers. The tender itself should be conditioned by clauses stating:

(a) that the tenderer is willing to execute a form of agreement completed as described in the bills of quantities;

(b) that any tenderers' errors in the priced bills do not affect the tender price and that these errors be adjusted in the manner described in this Code;

(c) the limit of the time the tender will be open for consideration.

Time for Tendering

Except in special circumstances, four weeks should be allowed for preparation of tenders. A shorter period will seldom be sufficient to enable the tenderer to obtain competitive estimates for the supply of materials, or the execution of works that it is intended to sub-contract. The limit of the time for submission should be specified as an hour of a day, and should be chosen to allow as short a time as possible to elapse before the opening of tenders. Tenders received after time should not be considered.

Cover Prices

Tenders should be wholly bona fide. The practice of providing information for "cover prices", other than in most exceptional circumstances, is deprecated and is contrary to the tenets of good tendering procedure. In order to avoid such practice those inviting tenders should make it clear that to decline an offer to tender will in no way prejudice the chances of those invited to tender to have the opportunity of tendering for future work for the architect or building owner concerned.

Opening Tenders and Notifying Results

If the foregoing recommendations are followed, it is reasonable to expect that tenders will be competitive and that each tenderer will be anxious to know whether his offer is lowest. This information will be important to the successful tenderer, who will require the earliest intimation in order to settle to the best advantage any sub-contracts



New flats, Tel Aviv, Israel

for materials and services. The knowledge that his tender is not being considered may influence a builder to tender more keenly for other work. Conversely, when a firm believes that a number of its tenders is being considered, it may be reluctant to tender elsewhere. The rapid notification of results of tendering should be considered as a public duty.

The practice of inviting tenderers to be present at the opening of tenders offers the most convenient and quickest method of notifying them of the results. Where this is not possible, each tenderer should be sent, at the earliest opportunity, a complete list of the names of, and amounts submitted by other tenderers. In normal circumstances there should be no reason to consider acceptance of any tender but the lowest, but it is recommended that, until the lowest tenderer has been informed of the intention to accept and his priced bills of quantities examined, the second lowest tender be kept open. This precaution will serve the building owner's interest if the lowest tenderer should, for any reason, withdraw his offer before acceptance. As soon as the decision to accept a tender is reached, any unsuccessful tenderer whose tender has until then been kept open should be informed immediately.

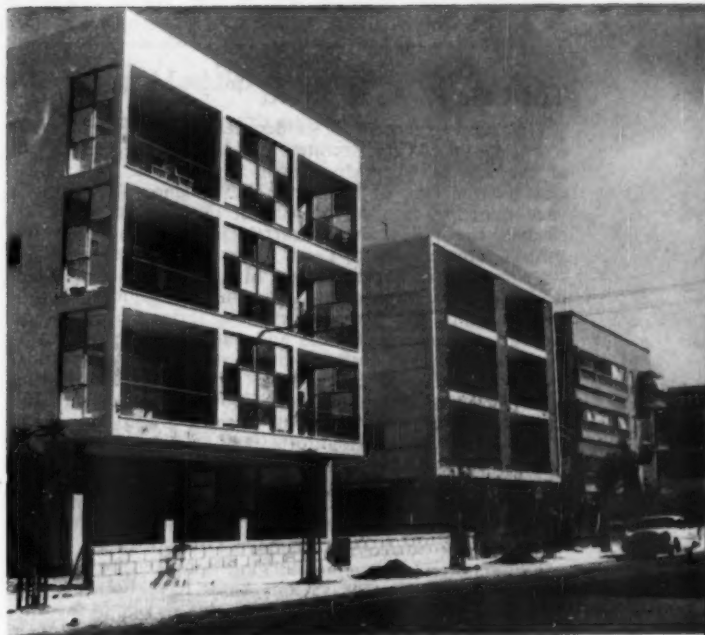
Examination and Adjustment of the Priced Bills

The examination of the priced bills of quantities should be made by the quantity surveyor who should treat the document as strictly confidential: on no account should any details of the tenderer's pricing be disclosed to any person except the architect unless with the express permission of the tenderer.

The first object of the examination is the detection of errors of an extent that might cause the tenderer, once he is aware of them, to withdraw his tender. If the quantity surveyor finds such errors he should report them to the architect, who should indicate to the tenderer the value of the errors and give him the opportunity of confirming or withdrawing his offer. If the tenderer withdraws, the priced bills of the second lowest should be examined.

When a tender is found to be free of serious error, or the tenderer is prepared to stand by his tender in spite of an error, then the architect should inform the tenderer of its acceptance: before doing so, the architect would be well advised to obtain authority from the building owner.

The method of adjusting any such errors should be to add an endorsement to the priced bills indicating that all rates or prices (excluding preliminary items, prime cost and provisional sums) inserted therein by the tenderer are to be considered as reduced or increased in the same proportion as the corrected total of priced items exceeds or falls short of the original total of such items. This endorsement should be signed by both parties to the contract.



Coming Events

The Incorporated Association of Architects and Surveyors—Northern Counties Branch

October 2, at 7.45 p.m. to 1 a.m. Annual Dinner and Dance. The president will be present. At the Merchant Taylors Hall, York.

The Association of Supervising Electrical Engineers—Liverpool and District Branch

October 2, at 7.30 p.m. "The National Inspection Council—Its Aims and Objects", by E. J. Sutton, M.I.E.E., M.A.S.E.E. At the Industrial Development Centre, Paradise Street, Liverpool, 1.

Town and Country Planning Association

October 3 to 17. A New Towns Exhibition to mark the Association's Diamond Jubilee. At the Royal Academy of Arts, Piccadilly, W.1.

The Ecclesiological Society

October 5, at 6.30 p.m. "The Rococo Churches of Bavaria", by Leslie Harris. At 2 Bloomsbury Square, W.C.1.

The Institution of Structural Engineers—Northern Counties Branch

October 6, at 6.30 p.m. Chairman's address, by W. R. Garrett. At the Neville Hall, Newcastle.

The Housing Centre Trust

October 6, at 5 p.m. Annual General Meeting. Presidential address by Professor Sir William Holford, at 5.30 p.m. At 13 Suffolk Street, Haymarket, S.W.1.

Architects' Christian Union

October 8. Reception 7 to 8.30 p.m. Buffet from 6.30 p.m. Guest Speaker: The Rt. Rev. Cuthbert Bardsley, Bishop of Coventry. At the Henry Jarvis Hall, R.I.B.A., 66 Portland Place, W.1.

B.B.C. Network Three. "Building Matters"

October 6, at 7 p.m. A fortnightly series of talks, "Know Your Industry", begins, in which important aspects of the building industry will be considered. In the first talk Goutrun Goulden, deputy director of the London Building Centre, will speak on "Sources of Information". Dennis Brook, of the British Coal Utilisation Research Association, will explain the working of small-bore pumped systems.

NEWS

The Late R. A. H. Livett

We regret to record the sudden death of R. A. H. Livett, O.B.E., A.R.I.B.A., City Architect of Leeds, on September 20, at the age of 61. More than anyone else, Mr. Livett changed the face of Leeds, for he designed all the city's vast municipal housing projects of the past 25 years, including the well-known Quarry Hill flats, his first big project after coming to Leeds as housing director in 1934. An advocate of building high, Mr. Livett in recent years designed many multi-storey flats schemes, including Saxton Gardens and the high blocks now springing up in the central redevelopment areas and outlying estates throughout the city. He designed most of the city's municipal estates—Gipton, Seacroft, Belle Isle, Sandford, Halton Moor, Hawksworth, Moortown, Cookridge, Butcher Hill, the big central redevelopment schemes now beginning in York Road and Burmantofts, and many other smaller and attractively laid-out developments. In 1950 he gained a national award for his planning of the Ireland Wood Estate in north-west Leeds, and another of his projects to attract considerable attention was the building in Beeston, Leeds, of the Shaftesbury House municipal hostel, replacing a number of common lodging houses. Some 30,000 municipal dwellings of various kinds have been built in Leeds during the period of Mr. Livett's service in the city.

Mr. Livett was previously deputy housing director in Manchester and played an important part in the planning of the suburb of Wythenshawe. After serving in France and Belgium with the Royal Sussex Regiment in the first world war, he studied architecture in his native London. He was awarded the O.B.E. in 1944 and in the following year his title became that of Leeds city architect, following a departmental reorganization in the city. He leaves a widow, a married son and a married daughter.

House Builders' Evidence on Housing Standards

The Federation of Registered House-Builders in its evidence to the Central Housing Advisory Committee's sub-committee on housing standards set up by the Minister of Housing and Local Government in March has made these points in answer to a questionnaire: The federation considers that flat and apartment dwellers will increase; that there will be an increase for the demand for a utility room or hobbies room for spare-time work; that fuller use of the whole living area in the house is the trend rather than reserving space for special occasions; that whole-house heating by some means other than solid fuel will become more general.

The federation also says that maximum floor space is required for day-living rooms, bedrooms are often unnecessarily large, kitchens should be larger in order to accommodate planned equipment and have room for the occasional meal. It also says that there is a demand for bigger bathrooms and that storage space is usually insufficient. The federation gave these priorities for improvements in housing standards of design and equipment: (i) heating and insulation; (ii) kitchen planning and equipment; (iii) space standards and storage; (iv) refuse disposal; (v) sanitary equipment—second w.c.; (vi) electrical points.

New Towns Exhibition

The Town and Country Planning Association has arranged this exhibition in co-operation with the 15 new town development corporations, and it will be shown at the Royal Academy from October 3 to 11.

The introductory section describes the origin and growth of the garden cities and new town movement; the private enterprise community developments at Bourneville Village (Cadbury, 1879), Port Sunlight (Levers, 1888) and New Earswick (Rowntree, York, 1904); the private enterprise garden cities at Letchworth (1903) and Welwyn (1919);

pre-war and war-time inquiries, leading to the New Towns Act 1946; the locations of the 15 new towns now being built; and the structure of the development corporations building them.

Individual sections, one for each new town, illustrate the special purposes, characteristics and problems of the 15 new towns now being built, and how people live, work, learn and play in them. The towns are: London ring: Basildon, Bracknell, Crawley, Harlow, Hatfield, Hemel Hempstead, Stevenage and Welwyn Garden City; provinces: Corby, Newton Aycliffe and Peterlee; Wales: Cwmbran; Scotland: East Kilbride, Glenrothes and Cumbernauld.

The concluding section sums up the total achievement that the new towns represent.

In the main the exhibition will comprise photographs, models, maps and diagrams and linking narratives, illustrating what the new towns mean in housing, work, learning and leisure. Throughout, its emphasis will be on "People Living in the Towns" rather than on the towns as exercises in civic design. The exhibition designer is Eric Aldhouse, of Messrs. Mather & Crowther.

A number of receptions will be held during the exhibition between 5.15 and 6.30 p.m. The host for the first date, Tuesday, October 6, will be Sir Harold Bellman, chairman of the Council of the Association, when the guests will be builders, office firms and architects. Representatives of the association and development corporations will be present at each reception. Mr. Harold Macmillan, Prime Minister, has written a foreword to the 64-page New Towns Exhibition book. Lord Beveridge, K.C.B., will open the exhibition on October 2.

Conference in Plastics at R.I.B.A.

The Plastics Institute has arranged a two-day conference on "The Influence of Plastics in Building," to be held at the R.I.B.A. on Thursday and Friday, November 19 and 20, 1959. The conference is intended mainly for architects and structural engineers, but others interested will be welcome. The opening address will be given by T. Mitchell, M.B.E., chairman of the Scientific Committee of the R.I.B.A. The chairmen for Thursday, November 19, will be H. F. Wilson and L. M. Read, and on Friday, November 20, G. Tolley. Papers will be as follows: "The Nature, Properties and Uses of Plastics Materials", by C. W. Welch, editor, *Plastics*; "The Influence of Plastics in Building: Operations", by S. Greenwood, chief architect, John Laing & Sons Ltd.; "The Influence of Plastics in Building: Services", by W. L. Thorne, technical officer, Imperial Chemical Industries Ltd.; "The Influence of Plastics in Building: Thermal Insulation", by W. B. Brown, senior development chemist, Monsanto Chemicals Ltd.; "The Influence of Plastics in Building: Performance and Aesthetics", by G. K. Findlay, consultant architect to Unity Structures Ltd. Conference tickets may be obtained from the secretary of the Plastics Institute, 6 Mandeville Place, London, W.1. Members of the R.I.B.A./P.I.: £1. Non-members: £2. R.I.B.A. or Registered Student P.I.: 10s.

New C.o.I.D.

Peter B. Inchbald, engineering director of Walker & Hall Ltd., who is on the management committee of the Sheffield Cutlery Manufacturers' Association, has been appointed by the Board of Trade a member of the C.o.I.D.

Manchester Building Centre Formed

Manchester now has its own Building Centre. The Manchester Building Centre Ltd. has been formed with the support of the Building Centre in London to whom it is affiliated. The objects of the two Building Centres are identical. Manchester B.C. will have no financial interests in sales, nor will goods be bought or ordered from the Centre. The sole source of income will be from the letting of space to exhibitors. All Fellows and



The Riju Hotel, Rotterdam; This 12-storey building, near the Central Station, designed by Merkelbach and Elling, was opened in June and has been the headquarters of the 1959 Congress of the International Council for Building Research Studies and Documentation, just ended

Members of Council will be honorary, and any surplus revenue derived from the letting of space to manufacturers will be expended under the terms of the Constitution on expanding the services of the Centre and architectural and building education and research. The organizing committee, under the chairmanship of Haydn W. Smith, are as follows: Eric S. Benson, M.B.E., Raymond O. Gerrard, John P. Griffiths, Leonard C. Howitt, Frank Hyams, William G. Thorpe, M.B.E., J. R. Townson, F. R. Yerbury, O.B.E.

Correspondence is being dealt with by the director, John P. Griffiths, at the temporary office in the Department of Building, The College of Science and Technology, Sackville Street, Manchester, 1.

Cricket: L.M.B.A. lose to R.I.C.S.

The L.M.B.A. ended their season with their annual match against the R.I.C.S. at Holloways Ground, Earlsfield.

The R.I.C.S. won the toss and put the L.M.B.A. in. The L.M.B.A. batted steadily and scored 194. (F. Vidler 61, A. Cload 41, and S. Wright 31.)

The R.I.C.S. had to score at the rate of 80 runs an hour to win. Thanks to spirited batting by J. Drew (69), P. Burns (36) and A. Goater (31) they passed the L.M.B.A. total for the loss of only five wickets and with a quarter of an hour to spare. Cload took 3 for 17 and A. J. Burns 2 for 16.

The L.M.B.A.'s record for the season reads—played 5, won none, lost 4, drawn 1.

Design Centre Goes to West Africa

For the first time a display of goods from the Design Centre in London is to be shown in Africa. The Kingsway organization, which is a retail subsidiary of the United Africa Company, are acting as hosts to displays of some three hundred exhibits chosen from the Design Centre.

The first exhibition will be held in the Kingsway Stores in Accra, the capital of Ghana, in the late autumn of 1959. A similar display will be on show in the Kingsway Stores in Lagos, the Federal capital of Nigeria, early in the New Year.

The goods for display, chosen in consultation with

Kingsway buyers, will include electrical equipment, light fittings, office equipment and street lighting.

Australian Modular Society

A Modular Society with similar aims and constitution to the Modular Society of the United Kingdom has been formed in Australia, and has just held its inaugural meeting. The Dean of the Faculty of Architecture of the University of Sydney is to be the first president.

Law and Administration

The New Planning Act

The Ministry of Housing and Local Government has published *Circular 48/59* which deals with the main provisions of the *Town and Country Planning Act, 1959*. The main purpose of the Circular is to provide a memorandum, which is annexed to the Circular, explaining in general terms the principal purposes of the new Act. The memorandum also gives some general advice for local planning authorities and others upon the actual administration of the Act.

The Circular draws attention to the importance and impact of the new arrangements made by Sections 36 and 37 (which were reviewed in A. & B.N. of August 26, 1959). There is appended to the Circular, *Notes for Applicants*, and specimens of the forms to be used in connection with planning applications in future.

The memorandum is concerned principally with the new provisions relating to the compensation to be paid on compulsory acquisition of land. The new basis provided by the Act is very clearly described. Particular emphasis is laid upon the new procedure, under Section 5 of the Act, for the issue of certificates by local planning authorities. This procedure is entirely new and is likely to produce many difficulties. The advice which the memorandum gives in this connection on the practice to be followed is of special value. Because an appeal lies to the Minister from action by local planning authorities, under Section 5, both they and potential applicants and their advisers would do well to give careful attention to the observations and advice set out in the memorandum.

New arrangements are made by the Act for compensation where unfit houses are acquired compulsorily. The memorandum has a most useful note upon these provisions.

The memorandum has a brief note on the other parts of the Act, including a valuable note on the effect of those Sections in Part IV of the Act which concern the obligation to purchase owner-occupied premises affected by *planning blight*. Once again these notes set out some interesting and useful advice on the practice which the Minister desires to see followed.

Town Development Areas

One of the many special provisions of the new Act concerns "town development areas" under the *Town Development Act, 1952*. These new provisions have necessitated the making of the *Town and Country Planning (Development Plans) (Amendment) Regulations, 1959*. The Ministry of Housing and Local Government has published *Circular 54/59* to explain the changes now brought about.

"The object of the 1959 Regulations is to provide for the definition of areas of town development on town maps, and to make various changes in the methods of presenting information in development plans."

The Circular explains the main provisions of the Regulations and provides a series of explanatory notes. The Regulations come into operation on October 1, 1959.

OFFICES AND SHOWROOMS, THORNE HOUSE

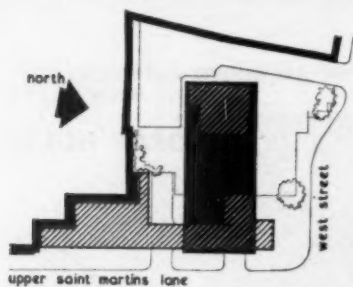
Architects: BASIL SPENCE and PARTNERS

Architects for the Showroom Interior: JOHN and SYLVIA REID

Consulting Structural Engineer: OVE ARUP and PARTNERS

Quantity Surveyors: LESLIE G. DIGHT





SITE PLAN

THORNE HOUSE is remarkable for the way the site has been used. The architects have made full use of the relaxation of restrictions on the heights of buildings. They have separated the offices (east-west block) and showrooms (north-south block) into two blocks placed at right-angles to one another. The area of the site is 2,700 sq yds and the site coverage ratio: 3.8:1.

The office block rises 184ft above the street (125ft by 50ft on plan). There are twelve floors of office space; each floor has about 4,000 sq ft of usable space, making 72 per cent of lettable floor area per floor.

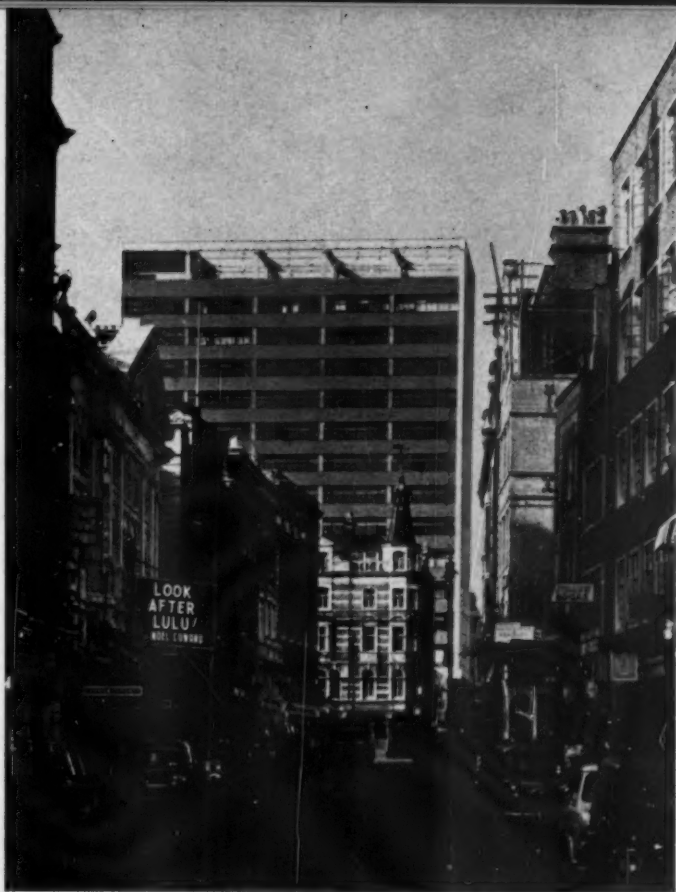
Construction

The construction of the office block is reinforced concrete. Offices (20ft 10in deep) are planned either side of a double row of spine columns, 5ft 10in apart. The building is designed on a 10in module. The module is not applied throughout the building. Tight economical dimensions take precedence in lift shafts and escape stairs. The square columns (1ft 8in) on the outside face of the building are 26ft 3in centre to centre.

Two French climbing cranes were brought and successfully used by the contractors. They claw their way up the building as it is constructed.

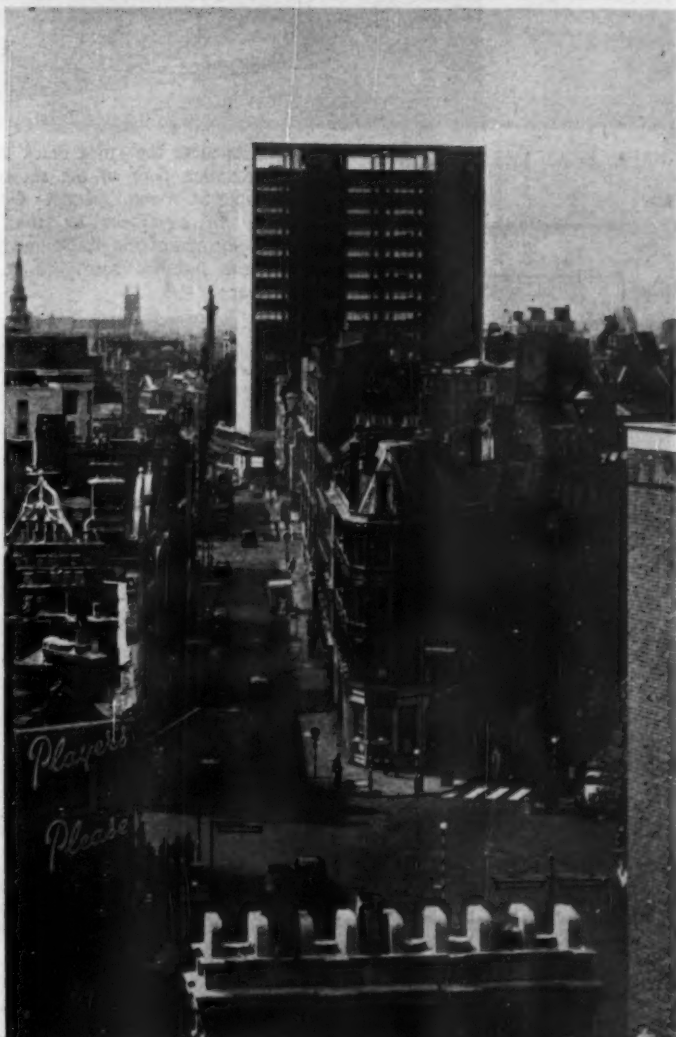
The office partitions are designed on a 4ft 2in grid, with 2in by 2in junction posts, 4ft being the common manufacturing unit width. The architects' aim has been to provide a system of timber pieces (mahogany) which can be screwed together to give a variety of different layouts. There are altogether about 10 pieces in the system. Due to the fact that the contractor found it impossible to screed the floors and fix the suspended ceiling level, skirtings for both the floor and ceiling have to be scribed on site. The architects have found that the system they chose is remarkably cheap.

The first floor was designed with a conference room to seat 200, a lecture theatre and a demonstration room. A kitchen and buffet are also provided. The floor to ceiling heights are greater here than in the other office floors. The client recently decided against having a particular place within the building for conferences, etc., as he thought too much time might be wasted on these activities. The first floor has therefore been fitted out with office



View up
St. Martin's
Lane

View from
Shaftesbury
Avenue

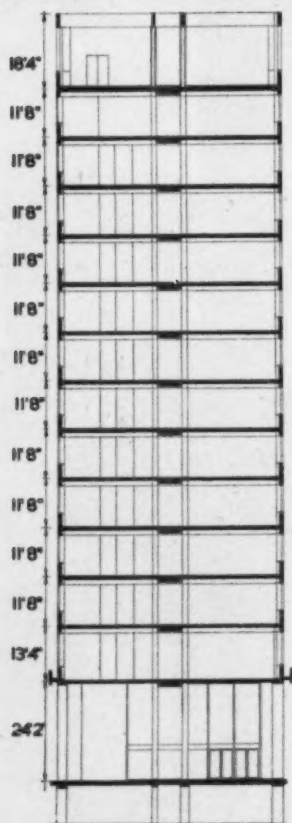


partitions like all the other floors, but since there is a difference in the ceiling height here, most of the components from which the partition system is made are specials.

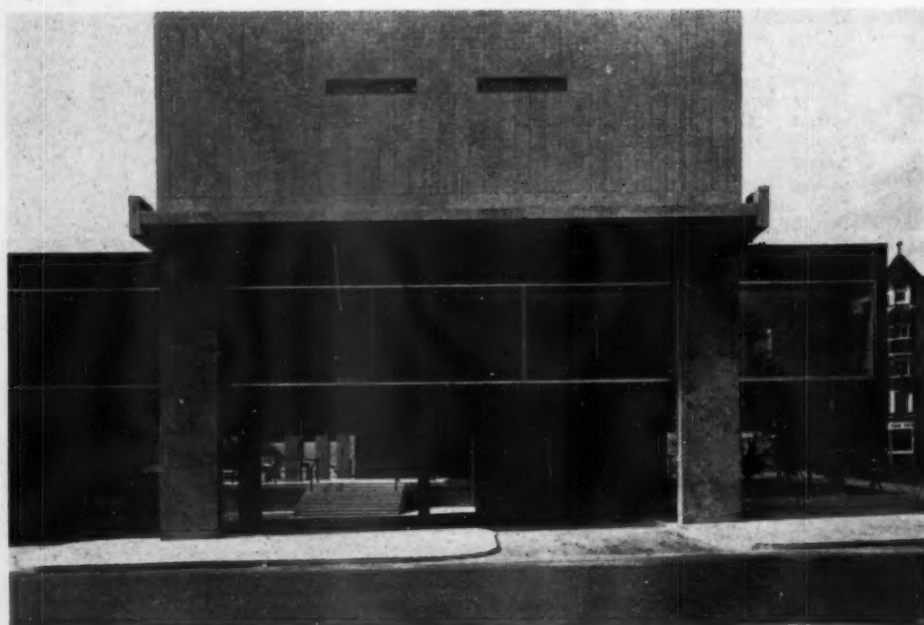
All window cleaning can be done from inside the building. The sill level is at 3ft 4in above the finished floor level. The lower transome is 6ft 5in, and the upper transome is 8ft 4in above finished floor level. The lower range of windows are alternately fixed lights and vertically centre-hung opening lights. These windows are principally to allow the window cleaners to work inside the building. Above these windows are a range of opening lights for ventilation and above them again another range of fixed lights glazed with non-actinic glass to reduce glare.

There are four lifts travelling at a speed of 700ft per minute. 600 to 700 persons can be taken to 13 different levels in the thirty-minute rush period. The lift lobby is combined with the usual smoke lobby, permanent ventilation being provided through the trough light fitting. This has enabled the architects to make a comfortably sized lift lobby.

Two oil-fired boilers are used to serve a large thermo-storage vessel.



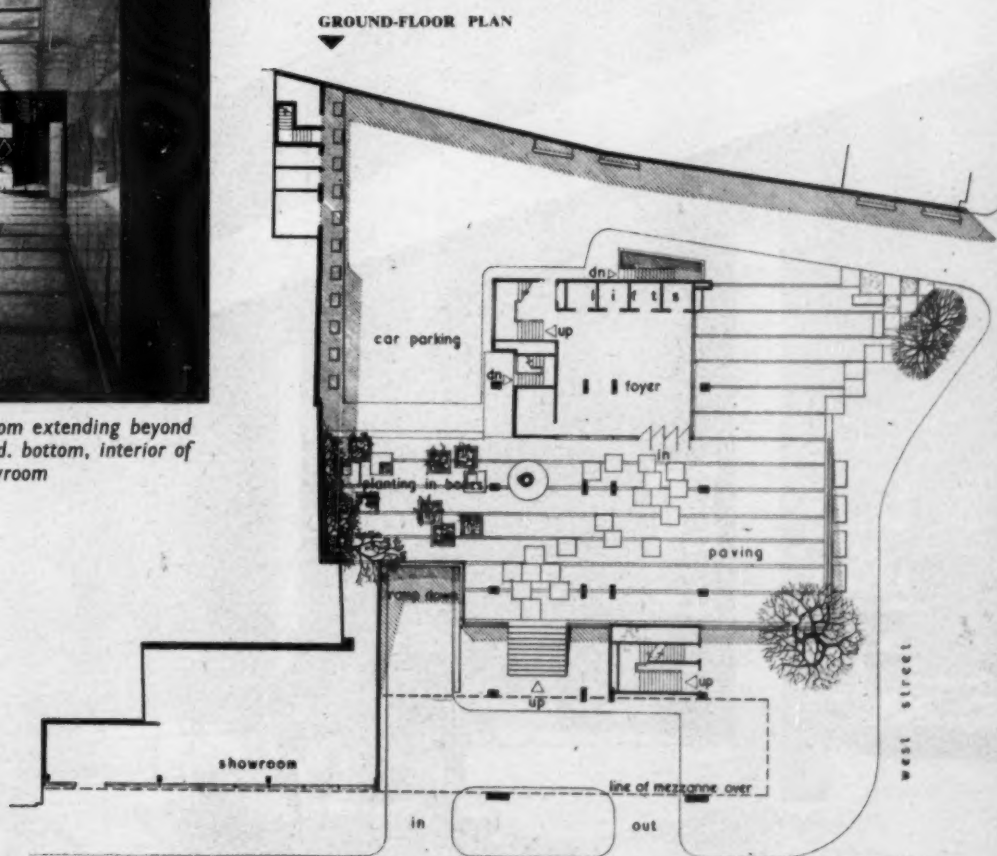
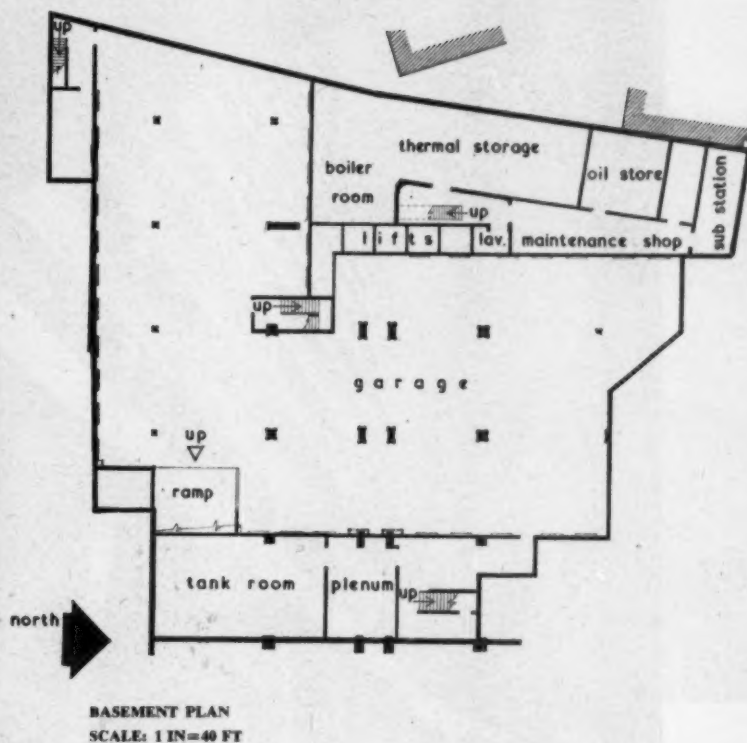
The entrance to the office block under the mezzanine floor of the showroom from Upper St. Martin's Lane. Garage entrance in basement on the left; pedestrians mount the steps and walk across the internal courtyard to the high foyer



SECTION THROUGH TOWER BLOCK



Top: Mezzanine of showroom extending beyond the face of tower block and, bottom, interior of the ground floor of the showroom



THORNE HOUSE

Electric calorifiers are placed near the lavatories to provide hot water during the summer months when the oil-fired boilers are turned off. Office heating is by thermostatically controlled convectors placed behind flush panels under the windows.

Basement

There is enough room for 40 cars in the basement, which is approached by a two-way ramp under the show-room. There are also in the basement washing facilities for cars, cold water supply in pressurized tanks (to save weight in the structure), and electric power and telephone substations.

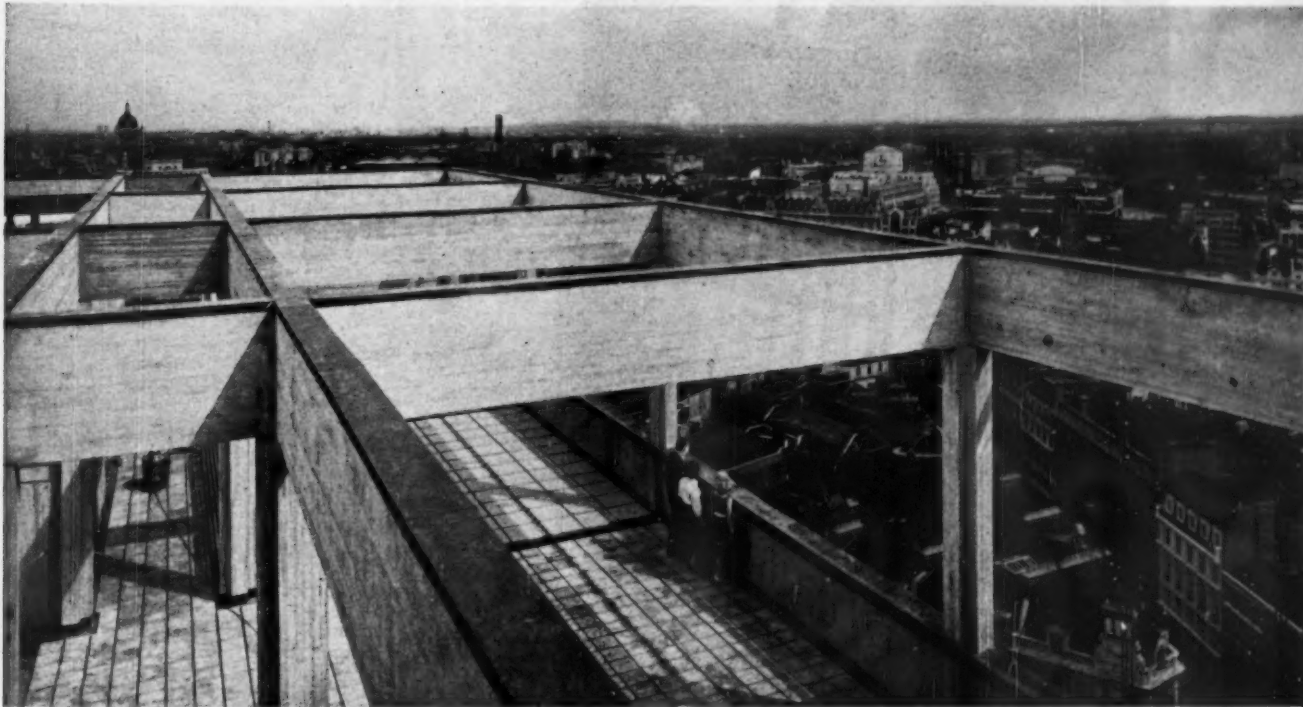
Finishes

At ground-floor level, where the foyer is open, the main columns (28ft high) of the building are exposed. They are constructed in one lift using a special aggregate with a retarder on the shuttering. When the shuttering was struck the surface of the columns was brushed to reveal the aggregate.

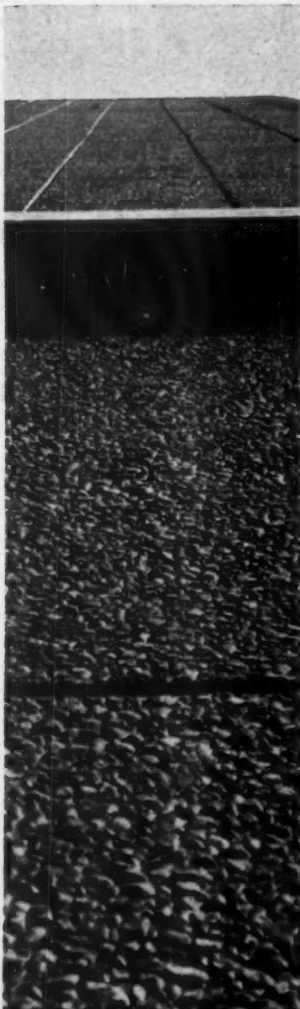


Top, view up tower block. Bottom, view from courtyard

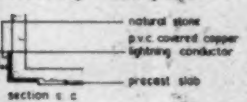
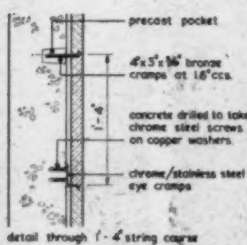
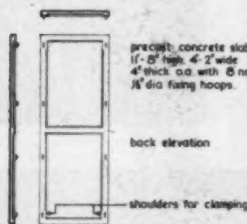
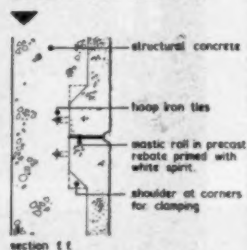




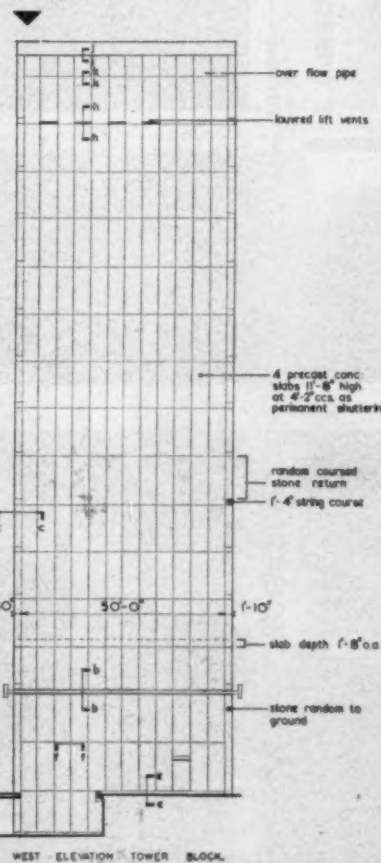
The open roof of the town block. The tops of the reinforced concrete beams, left untreated from rough sawn boards, are covered with lead flashings dressed over a metal angle. Below, details of the end wall cladding



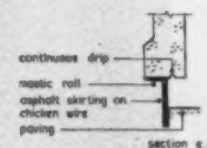
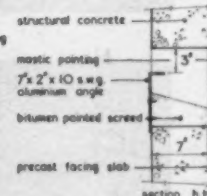
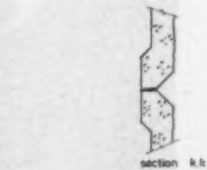
HORIZONTAL SECTIONS



ELEVATION



VERTICAL SECTIONS



THORNE HOUSE

At the roof the concrete has been left exposed. The shuttering was carefully designed; 2½in rough saw boards were used. The surface has not been treated in any way.

Horizontal bands of glass mosaic divide the strips of windows on the office floors.

Showroom

A two-storey building (approximately 7,000 sq ft) faces Upper St. Martin's Lane and extends the length of the site. It passes under the office block where there is a staircase connecting the two blocks together. A cellular steel and concrete floor construction has been used which gives a network of ducts over the entire floor area. This means that any kind of electrical service can be provided at any point on the floor or ceiling without disturbance between that point and the switchrooms.

It is intended to fix an abstract sculpture, 80ft high (incorporating lighting), by Geoffrey Clark, on the end wall (160ft by 54ft) facing Upper St. Martin's Lane.

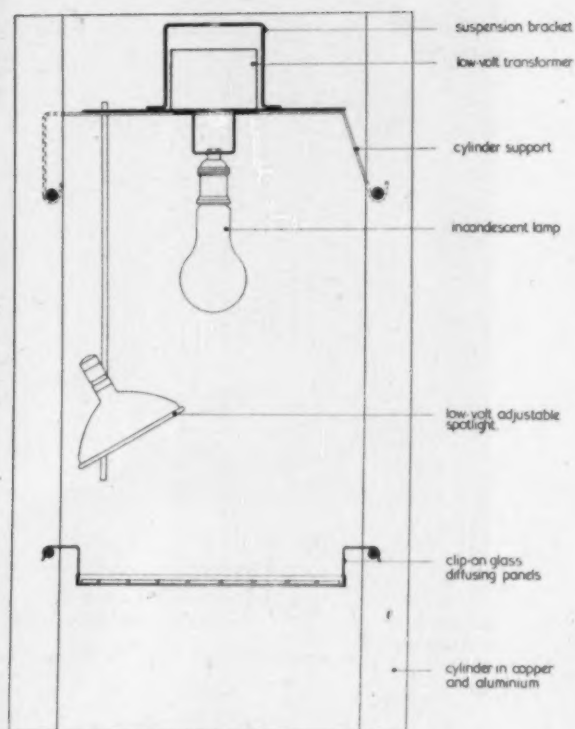
Cost: approximately £1,000,000.



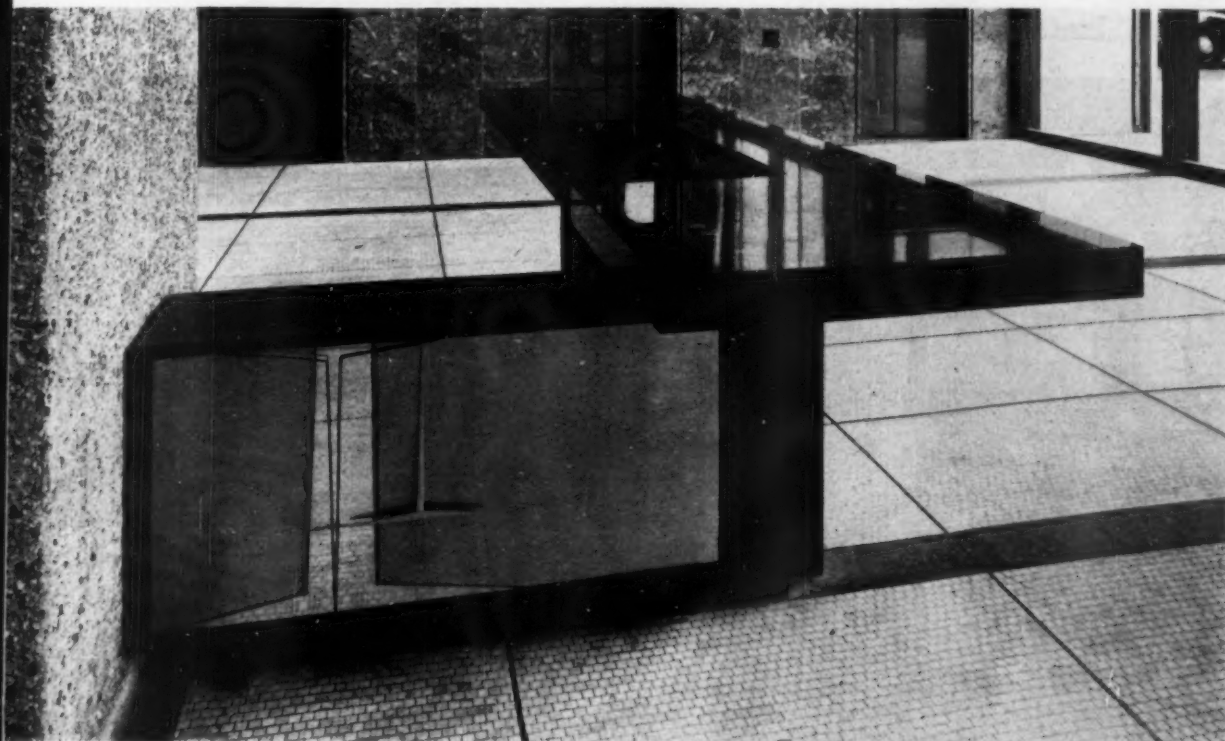
1. The gates, in the open position, used to close the interval courtyard. The gates run in grooves

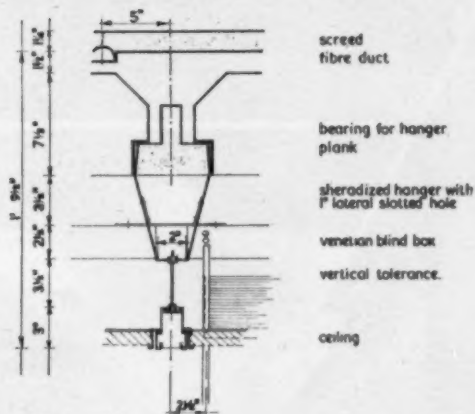
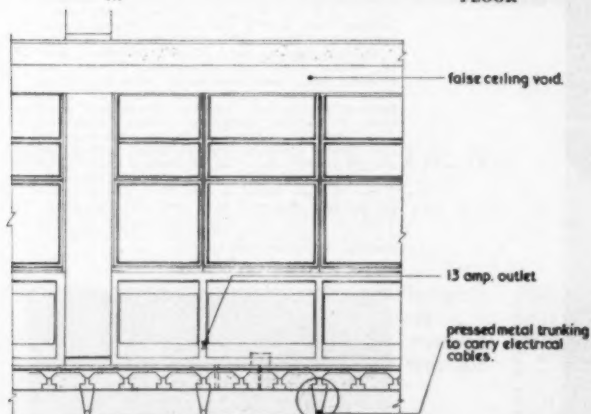
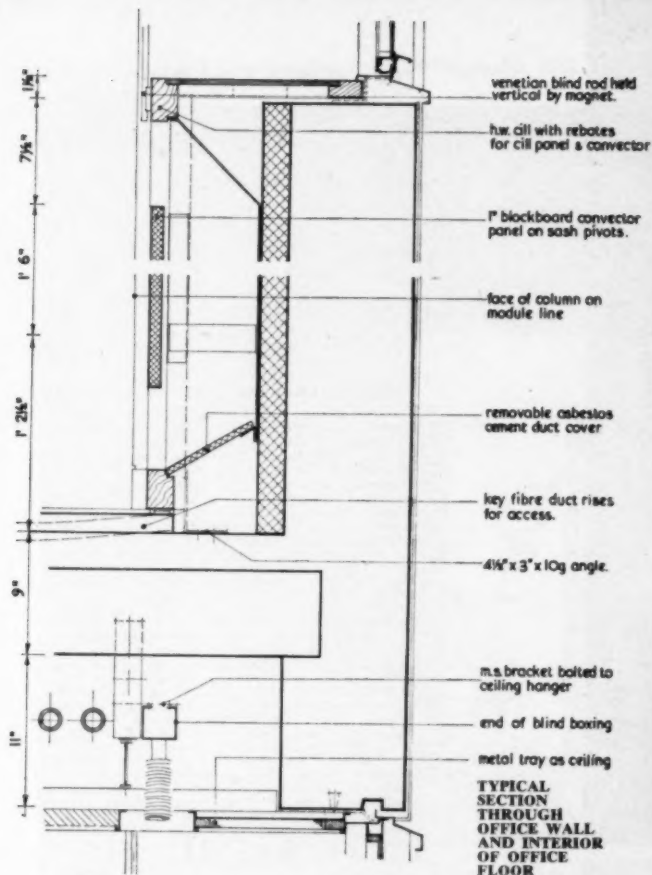
2. Steps up from the Upper St. Martin's Lane entrance to the interval courtyard. The steps are granite. Above, a close-up view of the steps and the ventilation slits for the basement garage

Left, the entrance to the office block from West Street showing the foyer and beyond the interval courtyard

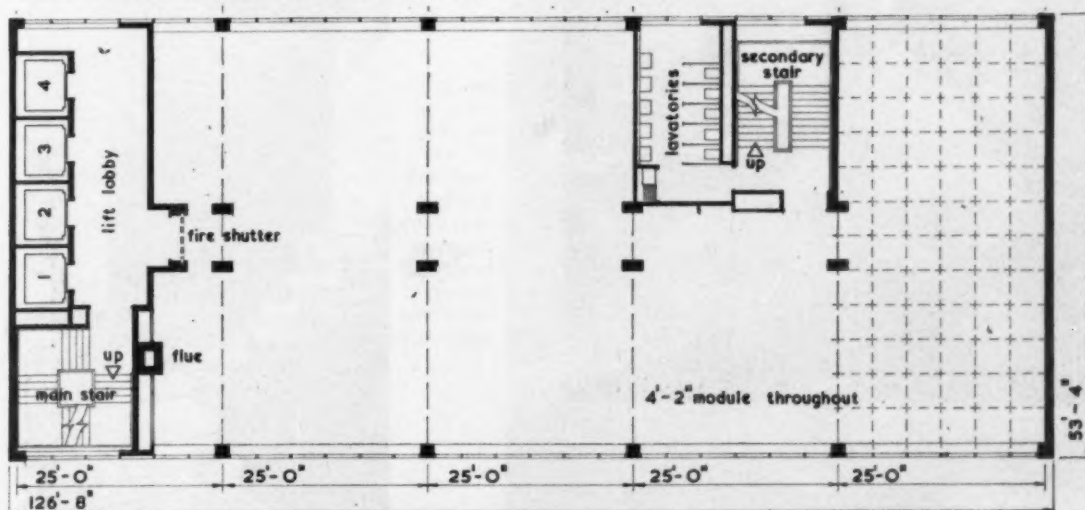


The foyer, with the copper and aluminium lighting cylinders. Behind the aluminated rectangular indicator panels showing the position of the lifts. The lift wall is Darlydene marble and the floor marble mosaic. Below, the Kellymount marble reception desk in the foyer with a leather writing pad





ABOVE: POSITION OF PRESSED METAL TRUNKING. RIGHT: DETAIL
BELOW: STRUCTURAL DIMENSIONS OF OFFICE FLOOR



THORNE HOUSE

General Contractors:
BOVIS LTD.

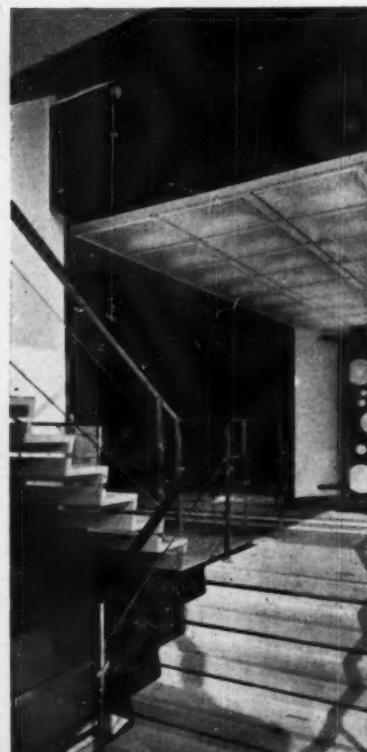
Sub-contractors and suppliers:

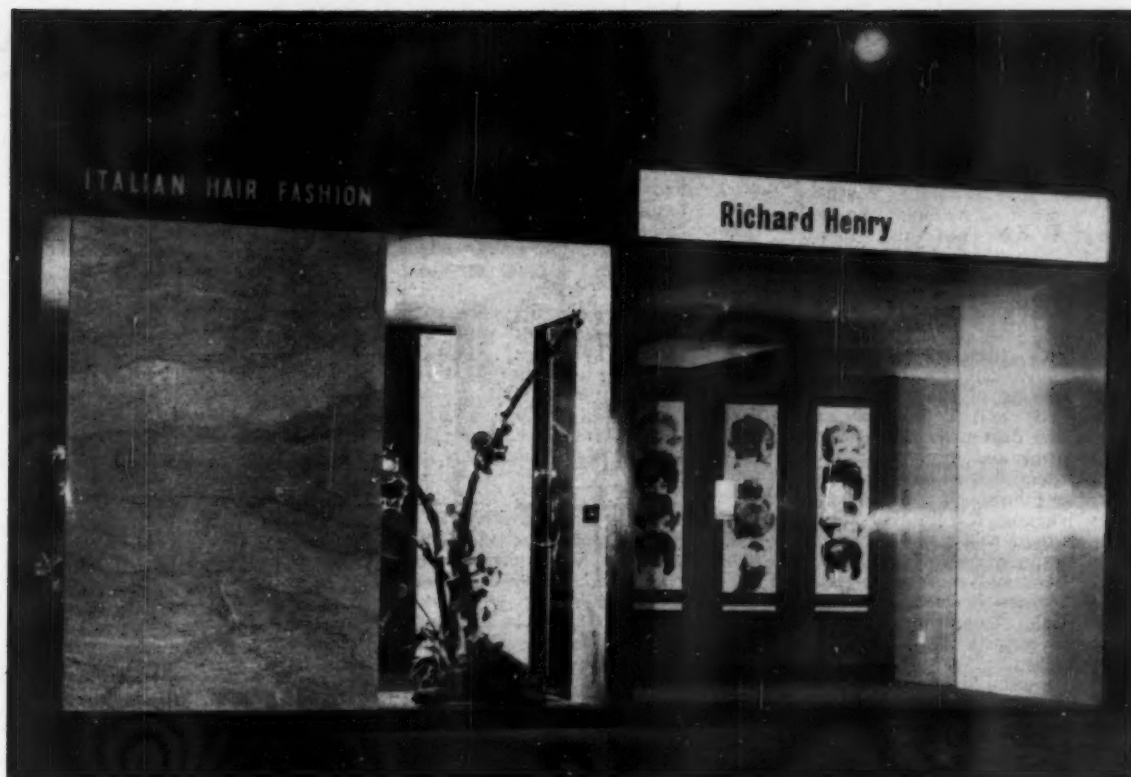
Asphalt: Ragusa Asphalt Co. Ltd. Balustrades: Cufford Art Metal Co. Carpeting: Catesby's Contracts Ltd. Display Lighting: Johnson Smith & Co. Ltd. Dial-operated Control Equipment: Siemens Edison Swan Ltd. Electrical Installation: Barlow & Young Ltd. Excavation: Marco Demolition & Excavation Ltd. Fibrous Plaster: C. E. Pinn & Co. Fire Shutters: Arthur L. Gibson & Co. Fireproof Asbestos Spray: Turners Asbestos Cement Co. Ltd. Flooring: Granwood Flooring Co. Ltd.; Robertson Thain & Co. Ltd. Furniture: Hille of London Ltd. Glass: James Clark & Eaton Ltd. Granite Facing: A. & F. Manuelle Ltd. Heating and Ventilation: Morris Warming Co. Ltd. Internal Telephones: Modern Telephones Ltd. Joinery: Builders' Supply Co. (Hayes) Ltd. Lifting Motors and Gear: Atlas Theatre Lighting Department. Lifts: Otis Elevator Co. Ltd. Lightning Conductors: W. J. Furze & Co. Ltd. Lighting Fittings: Atlas Lighting Ltd. Lightweight Scream: Colcon Ltd. Linoleum: Semtex Ltd. Marble Wall Finish: Anselm Odling & Co. Ltd. Metal Framing to Rotunda: Clark Hunt & Co. Ltd. Metal Windows: The Crisall Manufacturing Co. Ltd. Metalwork: Light Steelwork (1925) Ltd. Mosaic: Brockwell Mosaic Co. Ltd. Mosaic Wall Finishes: Art Pavements & Decorations Ltd. Paving: William Knight & Co. Ltd. Piling: John Shelbourne Co. Ltd. Plastering: Co-Plastering (East) Ltd. Portcullises: Templewood Hawkeley Ltd. Pre-cast Concrete Paving: John Healey (London) Ltd. Roof Cleaning: Ralls: Cradle Runways Ltd. Scaffolding: Hine Ltd. Showroom Windows: Morris Singer Co. Ltd. Site Electrical Work: Phoenix Electrical Co. (London) Ltd. Solid and Fibrous Plasterwork and Decorations: C. E. Pinn & Co. Staircase Handrail, Window Frames, Stainless Steel Skirting and Grilles: Morris Singer. Stainless Steel Street Lighting and Other Display Work: J. Starkie Gardner Ltd.; Cook's (Finsbury) Ltd.; W. Wilson; EGC Ltd. Stairtreads: Terrazzo and Mosaic Flooring Ltd. Stone Facing: Nine Elms Stonemasonry Works. Suppliers for PVC Wall Fabric: Bernard Wardle Ltd. Suppliers for Japanese grass cloth: Primavera. Suspended Ceilings: Scaffolding (Gt. Britain) Ltd. Terrazzo: Malacarp Terrazzo Co. Ltd. Timber Wall Paneling and Flooring in Auditorium and all Joinery: Bath Cabinet Makers Ltd. Tiling: Zanelli Ltd. Towel Dispensers: Advance Linen Co. Trees: William Wood & Sons Ltd. Turntable Floor for Rotunda: Grant & Kent Ltd. Venetian Blinds: Venetian Blinds Ltd. Ventilation: Morris Warming Co. Ltd. Waterproofing Work: Sika Ltd. Woodblock Flooring: Hollis Brothers Ltd.

Showroom:
staircase

mezzanine

Detail of
the
showroom
staircase





Fascia to the front is of black and white opal Perspex and above this, a black louvred grill conceals the ventilation system

HAIRDRESSING SALON, EALING

Architect: KENNETH GIBSON of the Richard Henry Design Unit

THIS new salon for the rapidly expanding hairdressing business of Richard Henry was opened this spring. Accommodation for approximately 30 customers at once is arranged on two levels, with staff facilities on the second floor.

The shopfront is a contrast of solid and void; the entrance lobby is deeply recessed and vision into the interior through an all-glass front is checked by the polished beech backing to the cloaks cupboard, the surface of which is used as a display background. Access to the display window is by a door through the back of the cupboard.

The flanking walls to the lobby are faced with laminated plastics and the floor is of mosaic. The window to the reception area has an infilling panel faced with Sicilian marble and this gives the necessary degree of privacy to the reception and waiting space.

Wall surfaces on the ground floor are also treated with laminated plastics or Vynide and the floor here is finished

Drying and dressing-out positions on the first floor. Black panels span a length of 20ft and conceal ventilation extract fans



HAIRDRESSING SALON, EALING

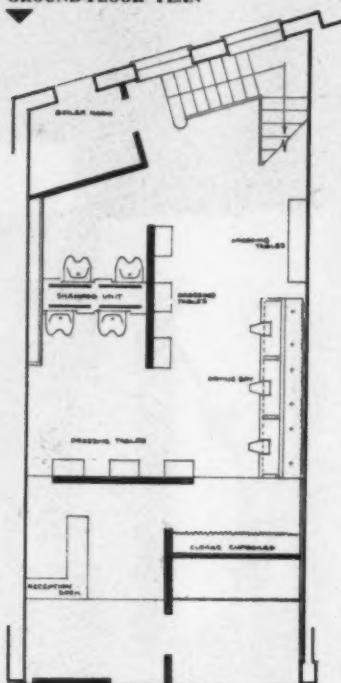
with P.V.C. tiles. Dressing-tables have floor-to-ceiling mirrors to create a feeling of spaciousness, and the shampoo unit is planned as a double-sided duct with storage facilities for towels and equipment.

Hair-drying seats have a background of Finnish curtains and these give a pleasant textural contrast to the other hard wall surfaces.

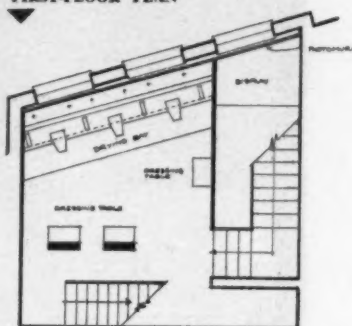
The first floor contains the dressing-out positions and more drying-seats. A plant garden is cantilevered over the stairwell. Colouring throughout the salon consists of a variety of neutral tones.

Water heating is by a gas-fired boiler.

GROUND-FLOOR PLAN



FIRST-FLOOR PLAN



General Contractors:
HICKMAN LTD.

Sub-contractors and
suppliers:

Finnish Curtains: Time Sarpeneva
Lighting: Courtney, Pope Ltd.; Fluoral
Ltd.; Forrest Modern; Troughton &
Young (Lighting) Ltd. Plumbing: Caldwell
Bros. Upholstery: Ernest Race Ltd.;
Ideal Upholstery Ltd.

Ground-floor area for cutting, permanent waving, washing and setting. Dividing screens are of ebonized hardwood, infilled with mirror and white Vynide-faced panels



Industrial Notes

● The re-formation of West's Gas Improvement Co. Ltd. has now been completed by the changing of the name of the original company to W.G.I. Ltd., its conversion into a non-trading holding company and the registration of two new subsidiary companies known as West's Gas Improvement Co. Ltd. and West's Works Ltd. Other member companies of the group are West's Piling and Construction Co. Ltd., West's (Manchester) Ltd. and Tully Engineering Co. Ltd.

● The British Plaster Board (Manufacturing) Ltd. recently reduced the prices for full loads of their Paramount Dry Partition. The 2½in partition now costs 11s 6d per sq yd for 25 to 149 sq yd, 10s 3d for 150 to 299 sq yd, and 9s for 300 sq yd and over. The 2½in partition costs 13s per sq yd for 25 to 149 sq yd, 11s 9d for 150 to 299 sq yd, and 10s 6d for 300 sq yd and over. In addition, the company has reduced the prices of ½in and ¾in thicknesses of Paramount Plaster Board, Thistle Plaster Base-board, and Thistle Plaster Lath, by 1½d per sq yd for minimum 600 sq yd deliveries.

● Following the transfer of control of Sealanco (St. Helens) Ltd. to Expandite Ltd., Mr. E. Bussey and Mrs. E. M. Bussey have resigned from the Sealanco board on retirement. The new board consists of Mr. T. Pooley

(chairman), Mr. G. Bussey (managing director), Mr. A. Cathcart, Mr. R. L. Myatt and Mr. C. R. Pearce. The sales of Sealanco putties, bedding and glazing compounds and special mastics and sealers will be handled by the Expandite Sales Organization. The sales of adhesives and Propac coatings will continue to be handled by Sealanco (St. Helens) Ltd. directly.

● H. C. Janes Ltd. have appointed two new technical representatives. These are Mr. T. V. Birch, who will cover Worcestershire and Warwickshire, and Mr. A. Words for Cheshire and Lancashire. They will be responsible for all Modolite timber windows and curtain wall sales in their respective areas.

● The British Plaster Board (Holdings) Ltd. show a profit of £1,292,535, after taxation for the year ended March 31, 1959, compared with the previous year's result of £899,343. The final ordinary dividend is 9 per cent, making a total distribution of 14 per cent for the year.

● Austins of East Ham Ltd. have appointed Mr. J. R. Spring as representative to assist Mr. W. Frost in Sussex.

● Simms Motor Electronics Corporation Ltd. show a group profit of £266,072, after taxation, for the year ended December 31, 1958, compared

with the previous year's result of £423,881. A final dividend of 1 per cent will be paid on the ordinary shares, making a total distribution of 6 per cent for the year.

● The telephone number of the Panelec Heating Division of British Insulated Callender's Cables Ltd. (previously known as Panelec (Great Britain) Ltd.) has been changed to Museum 1600.

● Mr. Aubrey Wallace Barr, M.A., a director of Cellon Ltd., has been appointed assistant to the managing director of the company. He is the son of Mr. A. J. A. Wallace Barr, who founded the company in 1911.

● Alfred Graham & Co. Ltd., a subsidiary of Siemens Edison Swan Ltd., are now handling all sales of convection and tubular heaters hitherto carried out by Siemens Edison Swan Ltd. Orders and inquiries should be addressed to Alfred Graham & Co. Ltd., Washer Lane, Halifax, Yorks (telephone: Halifax 61656).

● Mr. G. Roy Shearing has been appointed North-Eastern Area Technical Representative of Myton Ltd. His duties are chiefly concerned with the development of Myton multi-storey flats.

● Mr. H. Giblin, former regional officer of the Coal Utilisation Council, North-Western Region, has been appointed manager of the Solid Smokeless Fuels Federation.

● The name of Lorant & Co. Ltd., has been changed to Newage Machine Tools Ltd., and all future correspondence should be addressed to Newage at the head office of the company, 98-100 Croydon Road, London, S.E.20 (telephone: Sydenham 7482).

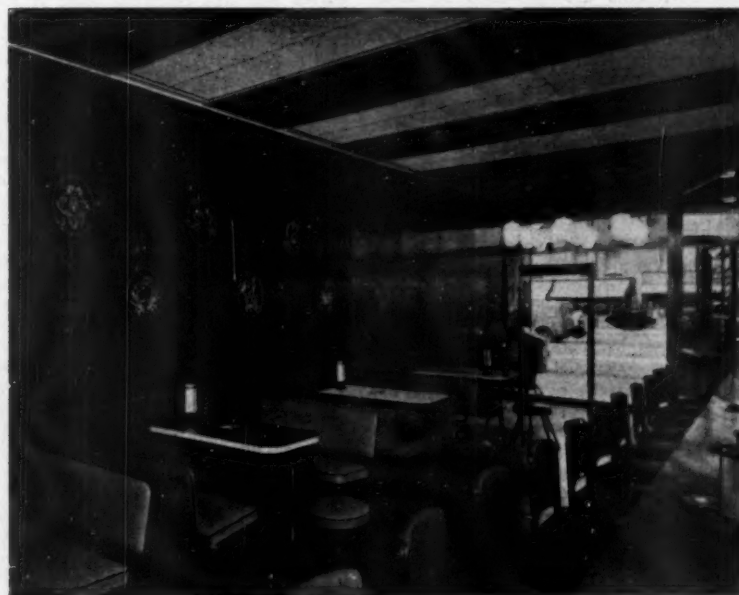
● Chemstrand Ltd. have appointed Mr. Peter L. Webb, M.B.E., as deputy managing director in charge of marketing activities.

CORRECTION

In A. & B.N. of August 26 and September 2, 1959, Joseph Freeman, Sons & Co. Ltd. advertised a building in Princes' Gate and said that the architects were Messrs. T. Mortimer Burrows & Partners. In fact, the architects are Messrs. Adie, Button & Partners. Joseph Freeman, Sons & Co. Ltd. wish to apologize to Messrs. Adie, Button & Partners for any inconvenience that has been caused to them.

The address of Burn Bros. (London) Ltd. should be Cray Avenue, St. Mary Cray, Orpington, Kent, and not as stated on advertisement page 68 in A. & B.N. of September 16, 1959.

The installation of lighting in this ice cream parlour was carried out by Harris & Sheldon Ltd. for Pleasure Foods Ltd. It consists of an array of Ionic glass pendants at the entrance and lines of Paragrid tile with fluorescent lamps above them recessed into the main ceiling. Designer: F. W. H. Ransome-Smith, M.S.I.A., of S. H. Benson Ltd.



NEW PRODUCTS

In this feature are reviewed new lines introduced to the building industry for the first time and additions or improvements to existing ones. Any advantages claimed for a product are from information supplied by the manufacturer

Spray-painting Equipment (A)

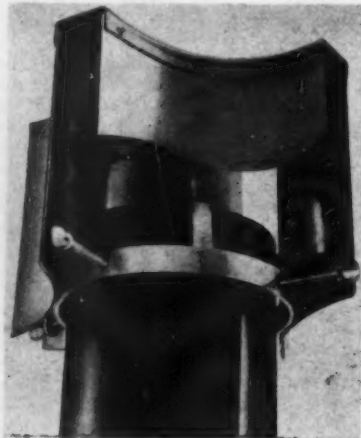
This company has made an agreement with the Gray Co. Inc. of Minneapolis, U.S.A., whereby they have been granted the sole U.K. distribution rights for the full range of Graco industrial equipment. This includes Hydra-Spray airless spray painting equipment, heavy material spray and extrusion equipment, and fluid transfer equipment of all types. The Grayco pumps are all air-operated and there are models for handling fluids and semi-fluids from inks and paints to heavy mastics and putties. Applications for them would appear to exist in most industries. These pumps form a logical extension of Bullows own range which now becomes more comprehensive and up to date. The company has created a Grayco Division which will provide further details and arrange demonstrations where required. Our illustration shows part of a specially fitted demonstration vehicle which is now touring the U.K.

*Alfred Bullows & Sons Ltd., Long Street, Walsall, Staffs. Walsall 5401.
Readers' Information Service,
Ref. A. Date 30/9/59.*

★

New Chimney Cowl (B)

A Junior version of the Brewer chimney cowl has recently been introduced. It has been specifically designed to fit cast iron or asbestos flue pipes of between 3½in and 5in inside diameter. It is made to precision limits from specially hardened aluminium alloy and is simply and quickly assembled. The cowl slides



B

inside the chimney pot and is then tightened up by means of bolts, whilst a device inside the cowl expands to grip the pot. Fixing takes only a few minutes. The cowl is aerodynamically designed to prevent smoke or fumes pouring into the room during windy weather. Other claims on behalf of the product are that it will induce fires to burn better; will prevent rain causing falls of soot; and will not interfere with chimney sweeping. The makers offer to loan cowls for test purposes and guarantee to refund money to customers not satisfied within 28 days.

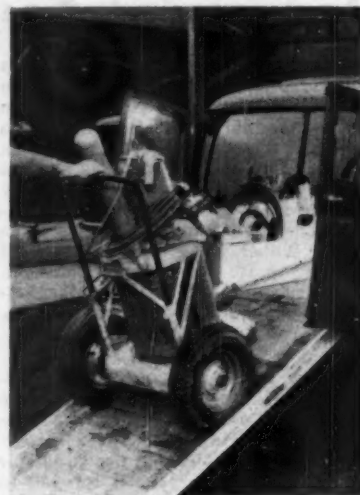
C. E. Brewer (Metalcraft) Ltd., Fleetsbridge Works, Upton Road, Poole, Dorset. Poole 727.

*Readers' Information Service,
Ref. B. Date 30/9/59.*

★

New Trailer Compactor

A new trailer compactor, with a pre-cast, reinforced concrete body, has recently been introduced. The compactor, known as the Terraformer, consists of two articulated units, one with four and the other with five wheels which are carried in staggered positions to ensure uniform consolidation of the complete ground area over which they travel. On heavy gradients, either unit may be used independently. Additional ballast compartments are provided so that extra wheel load may be obtained. Suspension is by cranked axles mounted on phosphor-bronze bearings. These axles are double cranked and can be supplied with a total throw of 4in or 7in as required. The double throw enables the wheels to impart exactly equal loading to the ground and without departing from a straight path. The fifth wheel is suspended from a beam mounted on rubber blocks in shear to ensure continuous pressure on the formation. Compaction width is 6ft 10in and the outside turning radius is 24ft 6in. Tyre loadings range from 2,240lb per wheel when unloaded to 3,360lb per wheel when loaded with ballast. The drawbar height can speedily be adjusted to suit various prime movers. Balanced loading of the carriages minimizes any vertical loading on the prime mover so that, on reasonably level ground, one man can hitch the Terraformer up to the waiting prime mover. For parking purposes a jockey wheel can be brought into position from the chassis and locked into place. Applications would



A

appear to range from road making to industrial coal stocking.

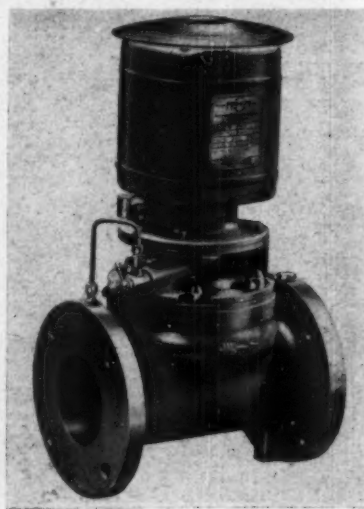
Wm. Jones Ltd., 1 Fitzroy Square, London, W.1.

*Readers' Information Service,
Ref. C. Date 30/9/59.*

★

Glasshouse Heating Accelerator (D)

The new 4in Mopump heating accelerator has been specially designed to increase the efficiency of glasshouse heating circuits and incidentally to cut the growers' costs. The pump is of light and compact construction and can be bolted directly into the pipework in any position, even in awkward corners. It requires no other support. The motor and pump form a single unit so that there are no vee belts to replace. Isolating valves are not required and, if the power fails, gravity circulation will continue through the pump. Automatic thermostatic or time controls can easily be arranged and the pump



D

will run equally well in both horizontal and vertical positions. Neither by-pass nor non-return valves are necessary and there is no stuffing box or gland leakage. A patent sealing device permits the motor to be removed without draining the system. The Mopump is hydraulically non-overloading. It is claimed that use of this new product will provide a more even temperature throughout the glasshouse and will make it possible, in conjunction with control valves, to distribute evenly the heat from one common boiler to different glass-houses.

Rhodes, Brydon & Youatt Ltd., Waterloo Engineering Works, Gorsey Mount Street, Stockport. Stockport 5257.

Readers' Information Service, Ref. D. Date 30/9/59.



F

New Spur Shelving Components (E)

The scope of the Spur adjustable shelving system has been extended by the introduction of three new components. The first of these is a 20g sheet steel shelf made in widths of 7in and 10½in, and in standard lengths of two and three feet. The shelf has a lip at each end which fits into the slot running the length of the standard U-section cantilever Spur bracket, so that lengths of shelving can be butted together to give long continuous runs. The front of the shelf is shaped to fit over the nose of the supporting brackets and provides an attractive leading edge. The shelf is stepped at the rear to form a stop and continues until it meets the wall. The 7in wide shelf costs 10s 10d per 2ft length and 14s 9d per 3ft length. Respective prices for 10½in shelves are 12s 9d and 16s 10d. Finish: corrosion resistant and stove enamelled willow grey. The second newcomer is a 2ft long bottle rack, holding six bottles. It is made from shaped steel rod

welded to a supporting bar at the front and rear so that the bottles are held almost horizontally. There is a metal flange at each end which fits into the top of the standard supporting bracket. Finish: terra-cotta stove enamel. Width: 9in. Price: £1 5s. New chromium plated copper clips have also been introduced for holding ¼in plate glass shelving. These can be screwed into place in the front of all standard sized Spur brackets, and then bent backwards to prevent the shelf from sliding out of position. Price: 9d each.

Savage & Parsons Ltd., Watford, Herts. Watford 6071.

Readers' Information Service, Ref. E. Date 30/9/59.

★

New Unit Heaters (F)

Three new Ekco unit heaters have recently been introduced. They have loadings of 3 (illustration), 5 and 10 kW, operate on the forced air principle, and should be suitable for use in factories, workshops, warehouses and large stores. Each model can be controlled by remote switching for winter and summer. They can also be used with separate thermostats, while hand re-set, safety thermal cut-outs are incorporated. Warm air can be directed as required by adjusting the angle and direction of the heaters in the fixing brackets. The 3kW model is supplied with a bracket for mounting on walls or stanchions. The 5 and 10kW units are usually suspended from ceiling joists or roof girders but brackets for mounting on walls or stanchions can be supplied at extra cost. Finish: polychromatic bronze.

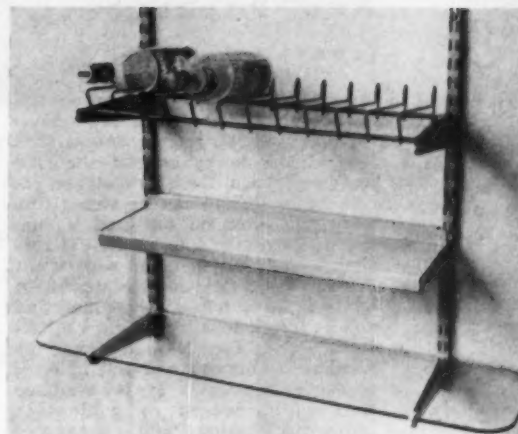
E. K. Cole Ltd., Ekco Works, Southend-on-Sea, Essex. Southend 49491.

Readers' Information Service, Ref. F. Date 30/9/59.

★

New Grating Monochromator

A new grating monochromator is being made by this manufacturer. It is intended primarily for use by laboratory workers, microscopists, teachers and others who require a simple light source of variable wavelength. The instrument uses a plane grating, with 15,000 lines to the inch, as the dispersing element and this gives a reciprocal dispersion of 70 Å/mm. The slits, variable in width from 0 to 1 mm., are of the simple unilateral form and are so coupled that, whatever their width, the peak wavelength of the transmitted radiation remains constant. The wavelength can be varied and is controlled by means of a knob with an indicator. The instrument is reversible and can be mounted on its baseplate with the slits horizontal or vertical. Without



E

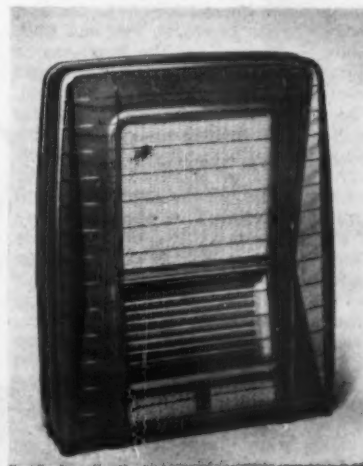
the baseplate the monochromator measures 33 by 15 by 9 cm., and the baseplate itself measures 20 by 20 by 2 cm. Total weight: 6 kg.

Hilger & Watts Ltd., 98 St. Pancras Way, Camden Road, London, N.W.1. Readers' Information Service, Ref. G. Date 30/9/59.

★

New Gas Fire (H)

The latest addition to this manufacturer's range of gas space-heating appliances is Model No. 268, a fixed hearth type radiant/convector fire. It is primarily intended for use in medium-sized rooms where the output from the larger No. 271 Century fire would exceed requirements. Full-on gas rate of the new fire, when heated up, is 15,000 B.Th.U./hr, and the overall efficiency is claimed to be over 60 per cent, rather more than half the output being in the form of radiation. Full-on gas rate, when cold, is 19,500 B.Th.U./hr. A special heat exchanger, of die-cast aluminium and steel, gives convection heating from the grille within a few minutes of lighting. A feature of particular interest concerns



H

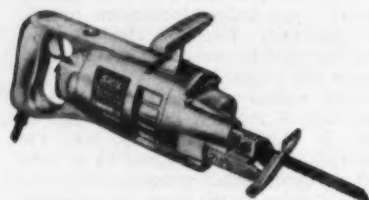
NEW PRODUCTS

(continued)

the casing which is attached to the heating unit by means of two retaining lugs and two screws, one at each side at the lower end of the side flanges. When these screws are removed, the casing can be swung forward and lifted off the lugs, leaving the whole of the interior fully accessible. The fire is fitted with silent burner, eight radiant bars and flash ignition tube, whilst gas connection can be made to either right- or left-hand side. The No. 268 must be fitted to a chimney and will fit most modern fireplaces. It is available with silver, bronze or gold stove enamelled casing and chromium plated trims and the expanded metal convector and cold air intake are finished in cream. The chromium plated fireguard, an integral part of the fire, complies with B.S. 1945 requirements. Overall dimensions: 26½in high by 21½in wide by 8½in deep. Forward projection: 5½in. Rear projection into fireplace: 2½in. Height to top of flue outlet: 19½in. Price (including P. Tax): £15 9s 9d.

R. & A. Main Ltd., 48 Grosvenor Gardens, London, S.W.1. Sloane 6241.

Readers' Information Service, Ref. H. Date 30/9/59.



Electrically Powered Reciprocating Saw (I)

This company has been granted sole distribution rights for a two-speed electrically powered reciprocating saw which is the latest addition to the Skil range of such products. The new tool, model 700, combines the functions of a hack saw, keyhole saw, and hand saw in a single versatile power tool. The lower of its two speeds enables users to cut metals quickly and with the minimum of blade wear, while the higher speed permits fast cuts to be made in wood, plastics, fibreboard and similar materials. A special feature of the new tool is a two-position blade shoe, the arm of which can be moved forward to bring the unused half of the blade into action once the portion originally in front of the shoe becomes worn. The off-centre position of the blade makes it possible to get close into corners. The blade can be inserted facing up or down which, combined with its placing, makes it possible to cut close to obstructions at both-right and left sides of the

operator. The top handle is removable for easier handling when the saw is coping with an awkward cutting position. Price: £55.

British Equipment Co. Ltd., Ixworth House, Ixworth Place, London, S.W.3.

Readers' Information Service, Ref. I. Date 30/9/59.

★

Steel Pocket Rule (J)

An improved design of extending steel pocket rule has been produced by the makers of Stanley tools. The Pull-Push rule, as it is called, has a D-shaped chromium plated case measuring two inches along the bottom. It can be used for accurate inside measurement as well as for ordinary work. The rule has a sliding True-Zero hook at the end of the blade which automatically compensates for its own thickness on both inside and outside measurements, and a True-View mouth which exposes the graduations on either side of the blade, where it enters the case, to eliminate sighting error. The Pull-Push is very flexible and can be bent round curves, corners or irregular surfaces down to a diameter of one inch. The rules are available in lengths of 6ft and 10ft and are priced at 7s 6d and 10s 6d respectively. They are also made in two and three metre lengths graduated in millimetres, or in combinations of both English and metric systems, at the same prices.

Stanley Works (G.B.) Ltd., Rutland Road, Sheffield, 3. Sheffield 25380.

Readers' Information Service, Ref. J. Date 30/9/59.

★

New Electric Convactor (K)

The latest addition to the M.E.M. range of electrical space heating appliances is a smaller version of the Memvek 2 and 3 kW convectors. The newcomer has a rating of 1 kW and is suitable for use in limited spaces or, alternatively, to supplement other forms of heat in larger rooms. A switch is provided for half or full heat and a warm glow shows through the grille when in use. Finishes: bronze, cream, mushroom, primrose, and eau-de-nil. Price (including purchase tax): £5 8s 10d (portable model); £4 17s (wall mounting pattern).

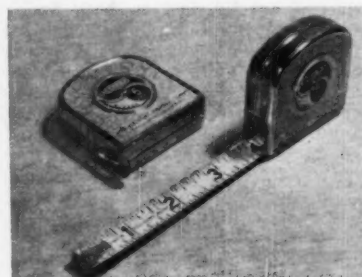
Midland Electric Manufacturing Co. Ltd., Reddings Lane, Tyseley, Birmingham, 11.

Readers' Information Service, Ref. K. Date 30/9/59.

★

New Boilerhouse Elevator

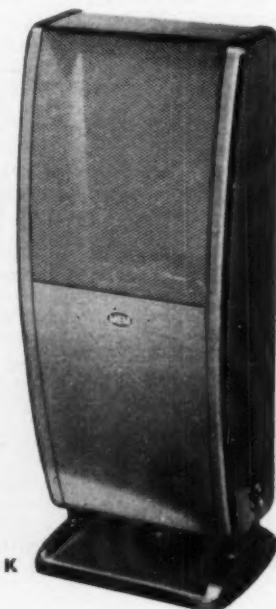
This firm is now manufacturing an 8in Universal elevator for boilerhouse applications. It is of the familiar chain and bucket type, designed to handle up to 1½ tons per hour of the usual boilerhouse fuels, but here all similarity to conventional elevators



ends. Any length of elevator, for any inclination of between 60 deg. and vertical, can be built up from a series of standard components and the design is so simple that an elevator can be bolted together and lifted into position in a matter of hours. There are five basic units—the feeding mechanism, the boot, lower section, mid-section and the head which incorporates the drive. Standard mid-sections are approximately 8ft in length but smaller sizes are available so that any particular length of elevator can be built up. A special curved mid-section can also be supplied for use where site conditions make a vertical elevator necessary. A new type of feeding mechanism is incorporated which, it is claimed, cannot be jammed by extraneous matter since there is neither ram nor paddle, but simply a flat oscillating plate. The body is hinge mounted at the base and head so that a high degree of accuracy at the floor of the pit is not necessary and small site adjustments to the slope of the elevator can easily be made during erection.

Bennis Combustion Ltd., Little Hulton, Walkden, Manchester. Walkden 3213.

Readers' Information Service, Ref. L. Date 30/9/59.



HOPE'S HARDWARE

A complete range of designs
is illustrated in our new
Catalogue No. 360
copies of which
will be supplied
on request

HENRY HOPE & SONS LTD

Smethwick, Birmingham

London Office & Showroom: 17 Berners St., W.1

HARCO Storage Tanks

The ever increasing use of fuel oil for heating domestic and other small premises has brought about a demand for storage tanks of convenient size and shape.

The range of 'Harco' Storage Tanks has been designed with this in mind, and includes tanks of suitable shape for handling through doorways and in other restricted spaces. All tanks are made from Mild Steel Plate with welded seams. Where necessary, bracing stays are fitted internally to ensure strength and rigidity under all conditions.

for Domestic Fuel Oil

Send for our List No. 1050 which gives full particulars. All types of Storage Tanks made to customers' specifications.

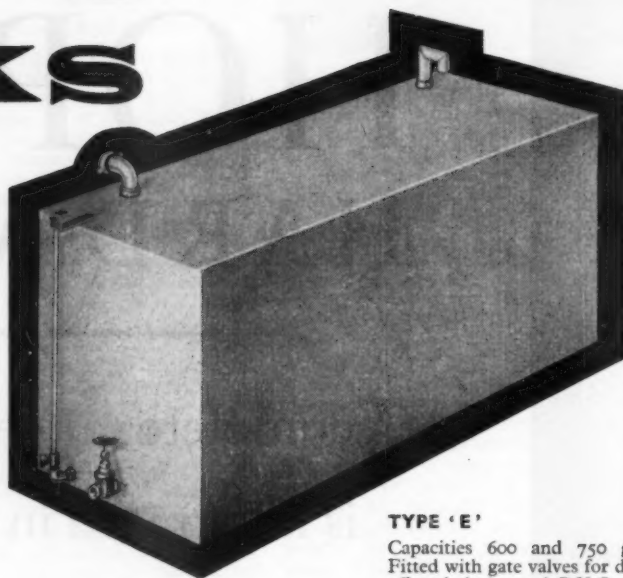
HARVEY

G. A. HARVEY & CO. (LONDON) LTD.
WOOLWICH ROAD, LONDON, S.E.7

Telephone: GREENwich 3232 (22 lines)

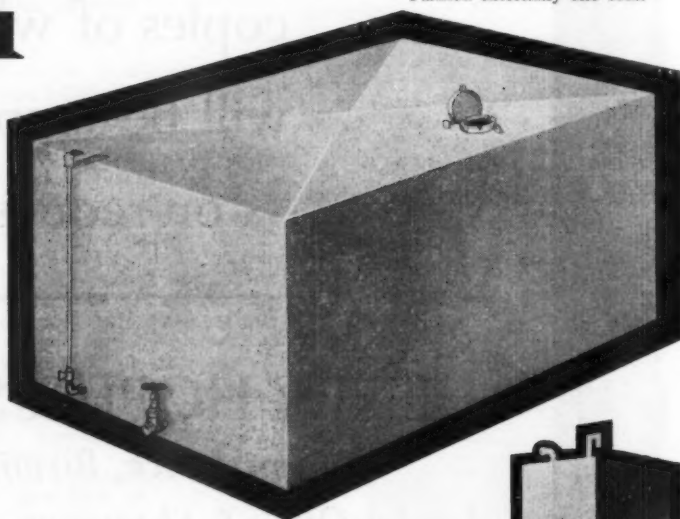
TYPE 'D'

Capacities 175 and 300 galls. Fitted with two gate valves for draw-off and drain, one filler pipe with screwed cap, and vent pipe. PVC. level gauge with isolating cock. Painted externally one coat.



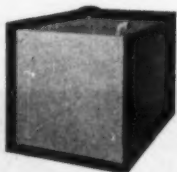
TYPE 'E'

Capacities 600 and 750 galls. Fitted with gate valves for draw-off and drain, and P.V.C. level gauge with isolating cock. 6" dia. combined fill and vent with hinged cover. Top tented to ensure that rainwater runs off. Painted externally one coat.



TYPE 'C'

Capacities 50 to 1,000 galls. Fitted three half sockets and filler tube with screwed cap. Painted externally one coat.



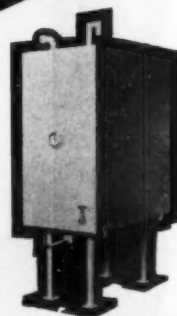
TYPE 'B'

Capacities 650 and 800 galls. Fitted 18" dia. manhole with bolted cover and joint ring, two gate valves, filler and vent pipes and indicator, painted externally one coat.



TYPE 'A'

Capacities 175 and 300 galls. Fitted with two gate valves, filler and vent pipes and indicator. Mounted on mild steel angle stand and painted externally one coat.



CURRENT MARKET PRICES (LONDON)

These prices apply to material purchased in the quantities named or otherwise as might be expected for a new building of moderate size. They include delivery and are the material basis used in the build-up of "Measured Rates" and subject to the conditions heading that schedule. Prices are under careful constant review but should be confirmed.

1 October 1959

AGGREGATES AND SAND

1½ in.—all in—ballast	26/6	Yard cube
¾ in. do. do.	27/-	delivered
¾ in. screened shingle	24/6	(in five-yard
¾ in. do. do.	25/9	loads or
¾ in. granite chippings	50/-	more)
Sharp washed sand	27/6	
Pit sand	24/6	
Building sand	24/-	
Broken brick	21/-	
1½ in. shingle	22/-	
Cartage of muck	10/-	

BUILDING MATERIALS AS DESCRIBED, CENTRAL LONDON

CEMENTS packed in paper bags	Per ton
Portland in 6ton lots	112/-
Do., from 1ton to 5ton 19cwt do.	124/-
Do., Rapid hardening (6ton lots)	122/6
Do. (but 1ton to 5ton 19cwt)	134/6
Cement "Aquacrete" (do.)	156/6
Do., "417" or "Polar" (do.)	156/6
Do., "White" 1ton (lots)	277/6

LIME—	134/6 (1ton loads) deliv'd
Hydrated .. including ..	132/- (2/3 do.) do.
White Bags ..	122/- (4/5 do.) do.
	120/- (6 do.) do.

PLASTER—

Keenes, coarse, pink	234/- ton
Do. do. white	239/- do.
Sirapite, do.	175/- do.
Do. finish	183/3 do.
Hardwall, do.	174/- do.
Plaster, coarse, pink	164/6 do.
Do. do. white	174/- do.
¾ in Gypsum Plaster Lath ex works (600sq yds)	2/6½ sq yd.
¾ in Do. do. Wallboard do.	2/10 do.
¾ in Jute scrim (100yd roll)	9/4 each
Cow hair (under 3cwt)	109/- cwt

FIRECLAY—

In non-returnable bags (1ton lots)	213/- ton delivered
Fire cement	12/3 14lb

BRICKS

BACKING BRICKS (in truck loads)—	
Flettons	118/- per 1,000 delivered
Do. Keyed	120/- do.
Do. bullnose	152/6 do.
Blue wirecuts (Net)	542/- do.
White	202/- do.
Southwater engineering (Class A)	400/6 do.
Firebricks—2½ in	95/9 per 100 delivered
Do. —3in	115/- do.

STOCK BRICKS—

Mild stocks	185/- per 1,000 at Works
Second, do.	274/- do.
First, do.	300/- do.
Add for delivery—approx. 55/- per 1,000 in lorry loads.	

FACINGS (ex truck or lorry)—

Rustics	150/- per 1,000 delivered
White	220/- do.
Blue pressed, 2½ in (Net)	604/- do.
Do. bullnose	618/- do.
Reds (Multi sand faced)	350/- do.
White glazed stretchers	1696/- do.
Do. headers	1670/- do.
Do. bullnose	2120/- do.
Do. double stretchers	2053/- do.
Do. double headers	2173/- do.
Breeze fixing bricks	30/3 per 100
Fire tile and lumps	34/- ft cube
Wall ties—8in by ½ in by ½ in, galvanized	72/6 per cwt
Cement mortar (1 : 3) hand-made	99/6 yd cube

BRICKLAYERS' SUNDRIES—

AIR BRICKS	9 by 3in	9 by 6in	9 by 9in	12 by 9in
Iron .. each	2/5	3/11	5/10	7/10
Galvanized do. do.	4/1	6/9	10/2	13/7
Terra Cotta do.	1/2	2/4	5/7	11/1
Chimney pots, Terra Cotta (11 to 24) do.	1ft 8/7	2ft 14/11	3ft 34/1	4ft 58/11

PARTITIONS—

18in by 9in Blocks keyed for plastering				
Per yd super in 6ton lots	2in	2½ in	3in	
In solid clinker including any half blocks	3/10	4/7	5/6	
In cellular clinker blocks	3/11	4/7	5/3	
In hollow clay blocks	—	4/5	5/5	

Clinker blocks in small quantity .. 6/1 7/2 8/7
Intermediate quantities in all types may be had at intermediate prices.

Smooth in lieu of keyed faces extra cost per side 3d per yd super

SINKS—

Fireclay white glazed in and out—standard quality	24 by 18in	30 by 18in	30 by 20in
London pattern, no overflow, 6in deep	73/-	90/9	100/9
Belfast, plain edge, 10in deep	86/6	144/6	194/9

FLUE, LININGS, PLAIN, CIRCULAR (FIRECLAY)—

	Foot lineal	Each
	Straight	Bends
9in diameter	4/8	14/-
10in do.	5/8	17/-
12in do.	10/9	32/9
9in diameter, beaded end, 12in high		6/3

FLUE PIPES AND FITTINGS—

	4in	5in	6in
Heavy asbestos type, 6ft length	18/6	25/6	32/6
Do. 3ft length	9/3	12/9	16/3
Do. bends	7/2	9/-	10/8
Light asbestos type, 6ft lengths	16/-	20/-	25/6
Do. 3ft length	8/-	10/-	12/9
Bends	5/7	7/1	8/8
Baffler	15/5	18/4	19/4

DRAINAGE GOODS

GLAZED STONEWARE STANDARD LIST (NOV., 1956)

	4in	6in	9in
ORDINARY TYPE—Each			
Pipes in 2ft lengths	3/4	5/-	9/-
Bends	5/-	7/6	20/3
Junctions (4in on 4in, 6in on 6in, 9in on 9in)	8/4	12/6	27/-
Gullies with 4in outlets	12/6	13/9	22/6
4in horizontal inlets	4/-	4/-	4/-
4in vertical do.	6/-	6/-	6/-
Black iron grids	1/6	2/10	5/6

Adjustment to Current Cost

	2ton lots or more	Less than 2ton lots
2in to 9in diameter "Best" pipes and fittings. Percentages to add	—22½ %	50 pieces or more Under 50 pieces
Further percentages to be independently added in respect of: British Standard pipes, etc., 10. "Best" Tested pipes, 37½	—5 %	NET

IRON DRAINAGE GOODS—

	4in	6in
Each		
Cast iron pipes, 9ft long	84/6	123/9
Do. 6ft do.	60/4	92/10
Do. 4ft do.	46/1	71/2
Do. 2ft do.	28/-	42/2
Short bend	59/-	50/7
Junction	33/8	70/6

CURRENT MARKET PRICES (Continued)

DRAINAGE GOODS—Continued

GULLEY PARTS—		4in	6in	
Traps, high level, invert	..	33/8	91/4	each
Inlet, bellmouth pattern	..	17/8	35/7	do.
Do. with one vertical branch	..	31/-	58/2	do.
Do. with two do.	..	84/-	122/3	do.
Extra for sealed cover	..	10/8	13/10	do.

RAINWATER SHOES—

	4in	6in	
With vertical inlet and rebated top	..	44/1	87/9 each
Extension piece	..	19/4	23/3 do.
Flat loose coated grating	..	4/7	4/7 do.
Loose solid coated cover	..	6/2	6/2 do.

MANHOLE CHANNELS, WHITE GLAZED—

Each	4in	6in	9in
Straight, 2ft long	..	17/5	25/6 42/11
Paper, do.	..	29/-	29/- 44/-
Bends, main, half section	..	33/8	48/9 80/-
Do., branch, do.	..	20/11	29/- —
Do., do. three quarters, do.	..	29/-	46/6 —
Functions, single	..	27/10	48/9 —
Do., double	..	38/3	66/3 —

BROWN GLAZED CHANNELS—

Based on standard list (less than 100 pieces)

	4in	6in	9in
Half-round main channel (2ft long)	..	2/6	3/9 7/-
Extra for step ends	..	2/6	3/9 6/9
Extra for outlets	..	5/-	7/6 —
Channel bends with splayed ends	..	7/6	11/3 —
Three-quarter section do.	..	10/-	15/- —

MANHOLE COVERS—

		Black
24 by 18in foot traffic	..	29/3 each
Do. Strong do.	..	53/9 do.
Do. Light car traffic	..	95/3 do.
Do. Road traffic	..	119/3 do.

SUNDRIES—

	Galvanized
Manhole steps	.. 9/3 each
4in Mica valve fresh air inlets	.. 16/- do.
Plumber's hemp	.. 9/- per lb
Gaskin, caulking	.. 1/5d do.
Canvas backed hair felt, 4in wide	.. 9d per ft run

ROOFING MATERIALS

WELSH SLATES (delivered)—

Sizes in inches	Full Loads	Quantity 500 to 599	1 to 49
22 by 11	..	2246/-	265/- 39/-
20 by 10	..	2021/6	237/6 35/-
18 by 10	..	1413/-	164/6 24/3
16 by 10	..	1120/-	131/- 19/3
14 by 9	Damp Course	668/-	70/9 10/6
14 by 4½	..	328/-	31/- 4/9

TILES (Brosley and Staffordshire)—

	per 1,000	per 100
10½in by 6½in Machine made, 6 ton lots	302/6	44/9
Do., hand made, sand faced (Berks red)	327/-	58/-
Hips, valleys and angles	..	36/3 per dozen
Plain concrete tiles	..	210/6 25/6

Sheeting asbestos corrugated, 6in pitch	..	8/3½ yd super
4½in by 16 gauge, drive screws (galvanized)	..	17/9 gross
7½in by ½ hook bolts and nuts (do.)	..	57/9 do.
Washers, round, flat galvanized	..	4/10 do.
Do. do. bituminous	..	2/- do.

ROOFING FELT—

Sanded bitumen felt (44lb)	..	1/1 yd super
Do., but 60lb in weight	..	1/7 do.
Inodorous felt, best quality	..	2/11 do.
Do., second quality	..	2/3 do.
Underlining	..	1/8 do.
Sheathing	..	1/8 do.
Galvanized felting nails	..	2/4 lb

THERMAL INSULATION—

½in Insulating Gypsum Baseboard (600sq yds)	..	2/9 sq yd
½in Do. Do. Lath	..	2/9 do.
½in Do. Do. Wallboard	..	3/- do.
½in Asbestos (Fully-compressed) Sheet	..	8/4 do.
½in Insulating Cork Slabs	..	7/6 do.
Silicate Cotton (2ton lots)	..	1/6 ft cube

STONE

PER FOOT CUBE in random blocks not exceeding 20ft cube in each, free on rail London.

Monks Park 9/7 St. Aldhelm 10/10
 Portland brown Whitbed 9/2
 Douling 10/2 Beer 9/-

TIMBER

Softwood—sawn—random lengths.

	Per standard	Per cubic ft
Carcassing quality	.. £105	12/8
Joinery quality	.. £125 and up	13/4
Plain edged unsorting flooring	.. ½in 1in 1½in 1¾in	13/4 165/-
per square	.. 90/- 110/-	138/-
½in Hardboard 4/1 sq yd.	..	138/-
Larger quantities cost less.	..	..

SUNDRIES—

	Dia.	3in	6in	9in
Black hexagon bolts, nuts and washers. Each	.. ½in ¾in 1in	10d 1/3 2/4	1/2 1/8 3/-	1/5 2/1 3/-
Sashline, hemp, good quality	..	No. 6 10d	No. 8 1/1½	No. 10 1/5
Per yd Run	..	10d	1/1½	1/5
Floor brads	..	..	84/3 per cwt	85/6 per cwt
Cut Clasp Nails	..	..	..	85/6 per cwt
Steel ordinary screws	1in No. 8 3/8	2in No. 8 6/3	..	17/- gross
Brass, do.	Do. 9/8	Do. 17/-	..	..

HARDWOOD. Normal joinery quality.

	Per ft cube
Mahogany, African	.. Square edge 30/-
do. Honduras	.. do. 66/-
Teak, Burma and Siam	.. do. 78/-
Walnut, Australian	.. do. 84/-
Oak, English	.. Sawn Logs 42/-
do. Yugoslavian	.. do. 47/6
Walnut, African	.. do. 25/-

BUILDING BOARDS

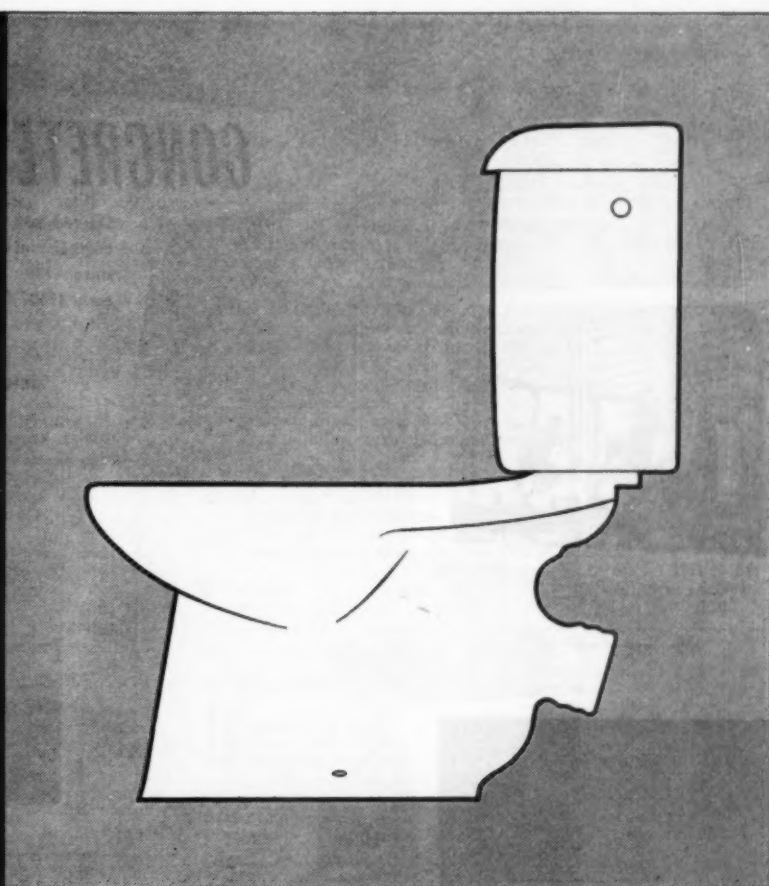
Description	Rate	Unit
16mm Birch blockboard	202/-	Per 100ft
22mm do. do.	245/-	..
Austrian Mahogany faced one side, blockboard 18mm thick	348/-	super,
Austrian figured Oak faced one side, blockboard 19mm thick	407/-	but
Beech, 6mm plywood	108/-	from one board
Birch, do. do.	81/-	..
Do. 9mm do.	115/-	up to
Teak faced one side, plywood 6mm thick	374/-	a
Austrian figured Oak one side, 6mm	224/-	..
Australian do. Walnut do. do. ¾in	383/-	bundle

IRONMONGERY

	2in	3in	4in	5in	6in
Cast iron Butts, per pair	1/4½	2/4	3/7	6/11	9/8
Hinges, spring, single action regulating, japanned, each	..	8/3	12/9	16/9	22/3
Do. but double action spring only, each	..	17/6	22/3	21/-	35/9
Do. blank only, each	..	10/3	14/-	28/-	24/3



design



material

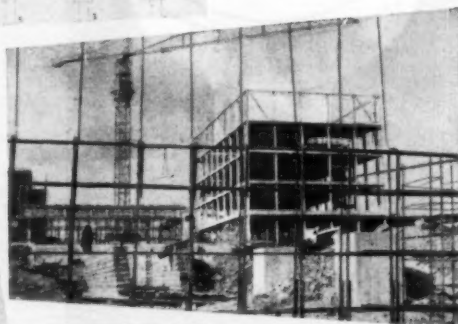
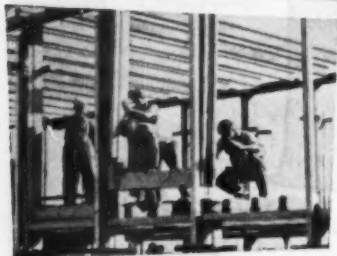
Fine design and a double-trap siphonic action are significant features of the new Kingston closet by 'Standard'. But just as important is the material from which it (like the matching lavatory basin) is made. 'Standard' vitreous china is non-porous and hygiene does not depend solely on the glaze. This, together with its great strength, makes it the most suitable material for sanitary ware. For good design in the right material, specify 'Standard' vitreous china.

vitreous china by **Standard**

CONCRETE CONSTRUCTION

Started last March, and growing apace, Dundee's Kirkton High School will be the largest school to be built in Scotland since 1939. Occupation of the first phase is planned for early 1960.

ARCHITECT: Robert Dron, A.R.I.B.A., F.R.I.A.S.
City Architect and Director of Housing
REINFORCED CONCRETE DESIGNERS & MAIN CONTRACTORS: Truscon Limited
GENERAL SUBCONTRACTORS: Charles Gray Limited



Kirkton High School embodies **TRUSCON PICTURE FRAME**, a pre-cast concrete structural system, fully adaptable to every architect's requirements—an economic structure for schools, offices, shops and housing: further details of **PICTURE FRAME** are given in **TRUSCON REVIEW 26**.

Truscon

Truscon Limited, 35-41 Lower Marsh
London SE1. Telephone Waterloo 6922
also, Birmingham, Central 2345-6: Bristol, 21861:
Glasgow, Central 0157-8: Liverpool, 5281-2:
Manchester, Trafford Park 2766: York, 24594

CURRENT MARKET PRICES (Continued)

IRONMONGERY—Continued

	12in	18in	24in	30in	36in
Tee hinges (japanned)					
per pair ..	2/-	3/10	—	—	—
Do., but stronger, per pair ..	3/4	6/1	8/3	—	—
Hook and Ride hinges, per pair ..	—	—	13/4	16/3	24/10
BOLTS—each—	3in	4in	6in	8in	10in 12in
Cabinet, barrel, straight or necked ..	1/6	1/8	2/3	—	—
Square spring, with brass knob ..	1/4	1/6	1/11	—	—
Tower bolts ..	—	1/10	2/8	3/6	4/5 5/2
Barrel bolts ..	—	2/9	4/-	5/2	6/8 8/1
Add to Tower or Barrel bolts if necked ..	1/4	1/4	1d	1d	1d 1d
LOCKS—each—					
Rim lock, 2 lever, wrote case, brass bolt and bushing ..	12/9		Brass furniture .. 5/-		
			or Bakelite do. .. 3/3		
			Bakelite finger-plates .. 2/8		
Mortice lock, 2 lever, bushed ..	12/9		Brass furniture .. 8/9		
			or Bakelite do. .. 3/10		
Cylinder latches, japanned case ..					16/-
Brass sash fastener ..					each 5/-
Casement fasteners (malleable) ..					do. 1/7
Do. stays (do.) ..					do. 2/2
Axle pulleys (brass face, iron wheel) 1 1/2in ..					do. 3/3
Do. as last, but with brass wheel 1 1/2in ..					do. 4/11
Sash line, No. 8 Anchor, yellow label ..					per yard 1/-

METAL GOODS

British rolled steel joists ex mills to basis sections on site (6in by 5in, 8in by 5in or 6in, and 10in or 12in by 6in) ..	£43/10/0 per ton
----------------------------------------------------------------------------------------------------------------------------	------------------

Extra cost over basis for following sections—

9in or 18in by 7in, 14in by 5 1/2in, 15in by 5in, 14in or 15in or 16in or 18in by 6in, 20in by 6 1/2in, 20in by 7 1/2in, 10in or 12in or 14in or 18in by 8in ..	10/- per ton
5in by 4 1/2in, 7in by 3 1/2in, 13in by 5in ..	15/- do.
12in by 5in, 22in by 7in ..	20/- do.
6in by 4 1/2in, 7in or 8in or 9in by 4in, 10in by 5in ..	25/- do.
4in by 3in, 10in by 4 1/2in ..	30/- do.
5in by 2 1/2in, 5in by 3in ..	35/- do.
6in by 3in, 24in by 7 1/2in ..	40/- do.
3in by 3in ..	50/- do.
4 1/2in by 1 1/2in ..	65/- do.
3in by 1 1/2in, 4in by 1 1/2in ..	70/- do.
1in mild steel reinforcing rods ex mill d/d ..	£41/9/0 do.
Extras per ton	
1/2in or 1in diameter in size ..	15/- per ton
1in ..	30/- do.
1 1/2in ..	62/6 do.
2in ..	92/6 do.
2 1/2in ..	132/6 do.
3in ..	172/6 do.
Extras for length	
5ft to 3ft ..	7/6 do.
3ft to 2ft ..	15/- do.
2ft ..	22/6 do.
40ft to 45ft ..	15/- do.
45ft to 50ft ..	22/5 do.
Bolt and Nuts ..	112/- per cwt
Trench covering, including trays 1 1/2in deep and rebated frames, 9in wide ..	25/- foot run
Do., but 12in wide ..	27/- do.
Do., but 14in wide ..	30/- do.
Do., but 18in wide ..	39/- do.

METAL SUNDRIES

Cast iron pavement lights with 4in by 3in prism and convex lenses in alternate rows ..	33/- per ft super
Iron single fire doors, panelled both sides, pivot hung and self closing, to angle frame rebated and lugged, to meet fire regulations ..	54/- do.
24 gauge galvanized Tallboy 6ft high, 9in diameter with 9in by 12in base ..	55/- each

CHAIN LINK FENCING—

	In 25 yards lineal rolls inclusive of line wire.				
2in mesh	Height in inches—				
	36	42	48	60	72
10 1/2in wire gauge ..	126/-	147/-	168/-	210/3	252/3
12 1/2 do. ..	87/6	102/6	117/-	146/3	175/6
14 1/2 do. ..	61/3	71/9	81/6	102/6	122/6

DOUBLE SOOT DOORS AND FRAMES—

Fitted with brass turn-buckle and cast key ..	9in by 9in	12 in by 9in	14in by 12in
	21/6	31/3	54/-

SLIDING DOORS, GATES AND PARTITIONS—

Factory sliding doors in two leaves containing about 100sq ft with mild steel angle frames covered with 24 gauge corrugated galvanized sheeting and including hanging tubular track and gear complete ..	18/6 ft super
Factory entrance gates with mild steel frames clad with 2in mesh chain link complete ..	16/6 do.

STEEL ROOF LIGHTS—

In Skylights and Lanterns, Standard type with puttyless glazing, lead flashings, and 1/2in rough cast glass; in the case of Lanterns 18in vertical sashed sides are provided in addition.

	Size at Base	6ft by 4ft	8ft by 6ft	10ft by 8ft
Skylights ..	£35 5	£50 10	£69 10	
Lanterns ..	£55	£76 5	£110	

HIGH GRADE DOMESTIC BOILERS—

Coke Fed. Performance 20 to 40 gallons raised from 40°F to 140°F per hour as under.

TYPE	£	s.	d.
20 gallons per hour			
15in wide, 23in high	Enamel finish ..	11	10 0
25 gallons per hour			
17in wide, 26in high	Do. Grey Mottle ..	20	10 0
	Do. Cream Mottle ..	22	0 0
40 Gallons per hour			
22in wide, 30in high	Do. Cream Mottle ..	38	0 0

GAS, WATER AND STEAM TUBES

BASIC PRICES

Internal Diameter—	1/2in &	1in	1 1/2in	2in	2 1/2in	3in	3 1/2in	4in	4 1/2in	5in	6in	8in	10in	12in
Tubes per ft	9 1/2d	10d	1/-	1/2 1/2	1/9	2/3	2/8	3/9						
Bends each	1/7	1/9	2/-	2/6	3/8	5/5	6/2	10/7						
Elbows, sq. do.	1/8	1/10	2/2	2/6	3/-	4/4	5/2	8/6						
Do., round do.	1/10	2/-	2/4	2/10	3/4	4/8	5/8	9/4						
Tees .. do.	2/-	2/2	2/6	3/2	3/8	5/-	6/2	10/2						
Crosses .. do.	4/4	4/8	5/6	6/6	8/2	11/-	13/2	21/-						
Backnuts .. do.	4d	4d	6d	7d	10d	1/-	1/4	2/2						
Sockets .. do.	6d	6d	8d	10d	1/-	1/4	1/9	2/6						
Sockets ..														
dimin. do.	8d	10d	1/-	1/2	1/6	2/-	2/8	4/-						

EX. STOCK IN ORDERS OF £10 OR MORE

DISCOUNTS OFF BASIC LIST.

TUBE—

Black	Galvanized
Medium (Blue)—35%	Medium—25%
Heavy (Red) —25%	Heavy —15%
FITTINGS—	Galvanized
Black —10%	Heavy —2 1/2%

RAINWATER GOODS (Painted or Unpainted)

In consignments of 5cwt and over

From Standard List

Pipe:	2in	3in	4in	5in	6in
6ft lengths ..	each 12/10	14/5	18/11	24/8	31/6
3ft do. ..	do. 7/-	7/9	10/-	13/1	16/6
Shoe, ordinary ..	do. 2/7	3/10	5/7	9/5	12/11
Bend ..	do. 3/1	4/4	6/4	11/3	14/7
Branch, single ..	do. 4/6	6/7	9/3	14/7	22/6
Offset, 4 1/2in ..	do. 3/9	5/3	7/9	12/11	17/-
Do. 9in ..	do. 4/11	6/6	9/8	15/3	19/3
H.R. gutter, 6ft length ..	do. —	6/-	8/5	10/4	13/10
Angle or nozzle ..	do. —	2/6	3/1	3/9	5/4
Stop end ..	do. —	9d	1/1	1/6	1/9
					Above plus 22 1/2%

CURRENT MARKET PRICES (Continued)

PLASTERING MATERIALS

Sand, lime, cement and various plasters are previously included under those heads—			
Metal lathing (½in by 24G) (20 yards) ..	4/-	sq yard	
Plaster baseboard ½in (1,200 yards) ex works ..	2/4	do.	
Lath nails, galvanized ..	1/11	lb	
White glazed tiles (6in by 6in by ½in) } small quantity {	25/3sq	yard	
Do., rounded on one edge ..	30/6	do.	
Do. on two adjoining edges ..	33/9	do.	

PLUMBER'S GOODS

4lb lead sheet (in 1-ton lots) ..	109/-	per cwt	
Lead water pipe in coils (do.) ..	111/3	do.	
Plumber's solder ..	3/7	lb	
Copper tacks ..	8/5	do.	

IRON SOIL AND WASTE PIPE. (5cwt lots and up)

each	2in	3in	3½in	4in
½in Medium pipe, 6ft length ..	14/6	17/2	19/3	21/11
Do., 4ft length ..	10/5	12/2	13/7	15/5
Bends ..	5/4	6/6	8/1	9/1
Do., with oval door ..	17/4	18/6	21/1	24/7
Junction, single ..	6/6	9/8	11/3	13/3
Do., with oval door ..	18/6	21/8	24/3	26/3
Swan necks, 4½in ..	6/6	10/3	11/9	13/9
Do., 9in ..	8/8	11/9	13/9	16/1
Holderbat, 2½in projection ..	5/9	5/11	6/3	6/4

Above plus 22½%

GALVANIZED CISTERNS, TANKS AND CYLINDERS—(Less than three)

each	gallons			
	Nominal capacity			
Bends over tops and corner plates. Riveted or welded	100	150	200	300
14 gauge ..	151/-	223/-	281/-	396/-
12 gauge ..	181/-	278/-	327/-	441/-
½in plate ..	210/-	322/-	379/-	515/-

HOT WATER TANKS

Riveted and with hand hole and ring	20	25	30	40
12 gauge ..	130/-	136/-	150/-	181/-
½in plate ..	144/10	155/-	168/-	201/-

HOT WATER CYLINDERS—

Riveted, with handhole and ring	20	25	33	39
12 gauge ..	158/-	173/-	192/-	208/-
½in plate ..	172/-	190/-	212/-	228/-

PLUMBER'S BRASSWORK, etc.

	½in	¾in	1in	1½in
Boiler screws, single nut	1/6½	1/11½	3/3½	5/7
Do., double nut ..	2/2	2/9	5/2½	7/2
Cap and lining ..	1/1½	1/6½	1/10½	2/0½
Plumber's unions ..	2/4	2/11	4/-	7/1
Ball valves, screwed iron	13/7	21/1	—	—
Do., fly nut and union ..	14/7	22/7	—	—
Bib valves, crutch top screwed iron ..	8/3	12/3	—	—
Do., but screwed boss ..	9/5	13/10	—	—
Stop valves, screwed iron ..	7/3	10/-	—	—
Do., screwed iron and union ..	9/-	13/3	27/-	—
Do., double union ..	10/3	14/6	29/3	—
Waste, plug chain and stay	—	—	8/-	9/-
Caps and screws	1½in 3/3	1½in 4/2	2in 6/-	4in —
Sleeves, long ..	—	—	7/4	10/7
Do., short ..	—	—	4/-	8/4
Thimble ..	—	3/9	4/6	10/6
Full way gate valves, hot pressed ..	20/6	28/6	—	—
Lead 7lb P. trap ..	—	1½in 6/7	1½in 8/7	2in 12/-
Do., S. trap ..	—	8/1	10/8	14/11
Lead 6lb P. traps with 3in seal ..	—	7/4	8/10	—
Do., but S. traps, do. ..	—	9/1	11/2	—
Wire balloon guards, copper, 2in, 3/3; 4in 3/6	—	—	—	—
Do., galvanized iron, 2in 1/11; 4in 2/1	—	—	—	—
Hair felt 34in by 30in, 24oz, 6/- sheet	—	—	—	—
Boss white jointing compound, 2/3lb	—	—	—	—
Gasket 1/10½lb. Hemp, 9/-lb.	—	—	—	—

COPPER TUBES—Extract from B.S. 659/1955—

Nominal bore	Internal work (semi-hard). Outside diameter	Gauge	Weight lb per ft	3cwt lots Price per lb pence	Price per ft pence
½in	0.596	19	0.27	42½	11.55
¾in	0.846	19	0.39	41	15.99
1in	1.112	18	0.62	39½	24.49
1½in	1.362	18	0.76	38½	29.55
2in	1.612	18	0.91	38½	35.39
2½in	2.128	17	1.40	40½	56.70

CAPILLARY TYPE CONNECTIONS—

Add for delivery and packing on orders under £10.

All ends copper to copper		Each	½in	1in	1½in	2in
Straight ..	1/11	2/8½	4/3	5/6	7/6	10/9
Elbow ..	3/10	4/9½	6/4	8/1	13/-	26/6
Tees ..	4/7½	5/5	8/7½	12/9	18/-	26/6
Brackets (Brass) ..	2/-	2/4	2/7	—	—	—

GLASS

English, flat drawn sheet glass cut to sizes in squares		24oz	26oz	32oz
Figured rolled, white cut to sizes, in squares (½in)		10½d	1/1½	1/5½
Ditto, but in standard tints		1/4½d	Per ft super	—
½in Rolled, cut to size, in squares		1/10	do.	—
½in rough cast do.		1/5½d	do.	—
½in do. wired do.		1/9½	do.	—
Georgian wired do.		1/9½	do.	—
Fluted (No. 4) do.		1/11½	do.	—
¾in Reeded ..		2/3	do.	—
½in Reedlyte (narrow and broad) do.		1/6	do.	—
Spotlyte do.		1/6	do.	—
½in Calorex Cast do.		1/8	do.	—
Flashed Opal (15/18oz) up to 1ft super		4/2	do.	—
do. do. over 1ft super		5/-	do.	—
Pot Opal (15/18oz) up to 1ft super		4/2	do.	—
do. do. over 1ft super		5/-	do.	—

POLISHED PLATE GLASS (Tariff) Cut to sizes.

Ordinary substance ½in and ¾in thick.		Per Superficial ft	General Glazing
In plates not exceeding:		2ft super in each ..	4/7
5ft do. ..		5ft do. ..	5/7
45ft do. (unless extra sizes) ..		100ft do. (do.) ..	6/9
Extra sizes, i.e., Plates exceeding 100ft super or 160in one way or 96in both ways at higher prices.		—	7/4

DECORATING MATERIAL

	Price	Unit
Aluminium Paint ..	41/-	Gallon
Distemper, ceiling ..	38/-	Cwt
Distemper, washable ..	120/-	do.
Enamel ..	60/-	Gallon
Gold Metallic Paint ..	79/-	do.
Heat Resisting Paint ..	50/-	do.
Japan, black ..	35/-	do.
Knotting ..	50/-	do.
Linseed Oil ..	15/6	do.
Boiled, do. ..	15/9	do.
Proprietary Paints (good class)—		
Finishing ..	57/6	do.
Priming ..	62/-	do.
Undercoat ..	57/-	do.
Paperhanger's Paste ..	36/6	Cwt
Petrifying liquid ..	10/-	Gallon
Putty ..	52/6	Cwt
Size ..	12/3	Firkin
Terebinte ..	37/-	Gallon
Turpentine substitute ..	6/5	do.
Varnish, oak, copal inside use ..	45/-	do.
Do., do., outside use ..	45/-	do.
Do., white, eggshell, flat ..	54/6	do.
White lead mixed paint ..	66/6	do.
White lead ..	167/6	Cwt
Whiting ..	13/3	do.

Take **ASTOS** the dampcourse

—for permanence, for a toughness that withstands vibration and normal foundation settlement, for easy identification on site. ASTOS, Standard or lead-lined, the original asbestos/bitumen dampcourse, complies with the British Standard requirements (B.S. No. 743, 1951). 24 ft. rolls, in wall widths up to 36 in. Standard (Type 5C) 7-lb. per sq. yd. Lead-lined (Type 5F) 9½-lb. per sq. yd.



Take Zylex Slaters' Felt as a secondary roof under tiles or slates, to prevent damage due to roof defects, to reduce heat loss. Reinforced Zylex for open rafters, Standard for boarded roofs, and Aluminium Foil Surfaced for even greater reduction of heat loss.

Take **ASTOS** and **ZYLEX** for perfect protection and insulation. Specify them together.



For technical literature write to:

THE RUBEROID COMPANY LIMITED 94 COMMONWEALTH HOUSE · 1-19 NEW OXFORD STREET · LONDON WC1

**BROUGHTON MOOR**

*Light Sea Green and
Olive Green Stone*

is eminently suitable for interior or exterior use where great durability and unique appearance are of paramount importance. Architects may specify its use for Facings, Foundation Stones, Paving and Flooring, Steps, Cills, Shop Fronts, Surrounds, Pilasters, Fireplaces, etc. Ask for these Technical Pamphlets:

1. Floorings
2. Facings
3. Copings
4. Cills
5. Riven Face Slabs

SPECIFICATION

The roof to be covered with Broughton Moor Light Sea Green best quality (coarse grained) Westmorland Slates, to be obtained from The Broughton Moor Green Slate Quarries Ltd., Coniston, The Lake District, Lancs, in random sizes about 18" to 9" long, proportionate and random widths, laid to a 3" lap in regularly diminishing courses, from eaves to ridge. Each slate to be securely fixed by two stout copper nails and wide slates are to be used on the hips and verges.

Alternatives: Seconds, Thirds, Special Peggies; Olive Green and Mixed Shades. Larger sizes also available.

Ridging: "Bromoor" purpose-made of crushed and moulded slate from the same veins is recommended.

Rain, Frost, Heat or Time do not affect their weather- resisting qualities

Quarried from one of the richest slate-beds in the world, Broughton Moor Westmorland Green Slates possess a rock-hard texture which makes them particularly suitable for use in chemical-laden atmospheres. Of picturesquely rugged surface and available in a wide range of harmonious colourings—Light Sea Green, Olive Green and Mixed Shades—they are the perfect medium for the roofing of all classes of architecture, whether domestic, municipal, commercial or ecclesiastical, enhancing the appearance of even the plainest edifice. Samples and prices gladly supplied.

IMMEDIATE DELIVERY FROM STOCK

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BURLINGTON ARCADE



The Famous London Shopping Centre overlaid with — **STONHARD RESURFACER**

This unique flooring material laid in the Burlington Arcade some twelve months ago continues to provide a quiet, resilient, and durable surface which remains unaffected by the exceptionally heavy pedestrian traffic to which it is daily subjected.

"For economy and performance STONHARD RESURFACER remains unparalleled! The heavier the traffic—whether mechanical or pedestrian—the longer the wear."

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Please send me brochure and details covering the FULL range of Stonhard Products.

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Profession or calling.....

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**CUT OUT
Send off**

CURRENT MEASURED RATES (LONDON)

These apply to new work of normal character and some size. These rates are for time and materials only and carry 10 per cent in excess, so the appropriate essential on-costs should be added. The basis cost of material used in the calculation of these prices is taken from the foregoing tables which carried up to October 1, 1958.

(COPYRIGHT)

ESSENTIAL ON-COSTS

Fees payable to L.C.C. for District Surveyor:	
The new buildings of ordinary construction not exceeding 5,000 cubic feet	£3
Over 5,000 cubic feet for every extra 1,000 cubic feet up to 1,000 cubic feet add	4/-
Buildings over four storeys add 3d per 1,000 cubic feet extra for each storey up to eight.	3d

ALTERATIONS AND ADDITIONS

Up to £100 cost	£3
Over £100 up to £1,000.—	Per £100 cost
Over £1,000 up to £5,000.—	15/-
Over £5,000	5/-
Public buildings add 50%	3/-

Steel framed or R.C. buildings.—See L.C.C. (General Powers Act 1955) also fees in respect of means of escape in case of fire.

Allowance to cover National Insurances, Holidays with Pay and Public Holidays, Welfare, Third Party Risk, Travelling and Guaranteed Week is made in the rates attached to the items.

Allow for Fire Insurance	1/6%
Allow for Water for use on the works and apparatus.	5/-
Allow for hoarding, or similar licences in City of London say £10	
Do. under Borough Councils per each month	say 2/6
Allow for Office, Fire, Attendance on C. of W., etc. p. week say 30/-	

ADMINISTRATION AND CONTROL

Percentage costs on normal contracts in accordance with Builders Turnover per Annum see appropriate column hereunder:

Place	Turnover in Thousands			
	25	50	75	100
At depot	13%	9%	7%	6%
On job	6%	5½%	4½%	4%

SPOT ITEMS AND DEMOLITION, ETC.

	Per ft run
Hoarding erected and removed	20/-
Planked gangway with handrail, etc. do.	10/-
Proper gantry do.	78/-
Sleeper roadways	16/6
Needling, strutting and shoring including all labours and use and waste in erection and removal	20/-

ALTERATION-DEMOLITION—

	1 Brick	1½ Brick	2 Brick	Per yard cube
Cutting out cement concrete or brickwork in small quantities	1/3	2/6	3/7	64/-
Do. if either in very small quantities or reinforced	2/2	4/1	6/-	95/-
Debris into baskets and removed from inside to outside of bldg.	3½d	7d	9d	14/-

SCAFFOLDING (Avg. 45ft high)

Per yard superficial	1 month	3 months	5 months
Putlog type—4ft 6in lift	8/-	10/6	13/6
Do. —6ft 0in do.	5/6	8/-	10/6
Independent type—4ft 6in lift	10/6	14/6	19/-
Do. —6ft 0in do.	7/6	10/6	13/-

EXCAVATION

Per Yard Cube	Common Soil	Loamy Clay	Gravel or Clay	Rock or similar
By hand				
Reducing levels	7/-	8/4	9/9	64/3
Surface trench not exceeding 5ft deep	14/1	16/10	22/5	79/10
Do. from 5ft to 10ft	25/9	28/11	34/7	87/2
Do. from 10ft to 15ft	29/3	34/10	40/11	95/4
Fill in and ram	5/9	6/4	6/4	6/2
Barrowing 25yd	3/3	3/7	3/7	4/2
Load vehicles and tip 8 miles away	17/9	17/9	18/9	19/7

PLANK AND STRUT

	To 5ft deep	5 to 10ft deep	10 to 15ft deep
To trenches, in normal ground	7d	8½d	10d
Per Ft Super			

CONCRETE 1½in Ballast Aggregate

	Per yard cube
1 : 3 : 6 Cement concrete in foundations	80/-
Do. around grilles	83/-

REINFORCED CONCRETE

	Per cubic yard
1 : 2 : 4—¾in concrete, worked around reinforcement, between formwork in the following (at various levels):—	
Foundations and surface beds	89/9
Walls, 12in thick or more	96/-

Sectional inches	Lintols and beams	Columns and casings	Braces and projections	Per cubic ft
Up to 36	4/10	5/2	5/4	do.
36 to 72	4/8	5/-	5/2	do.
72 to 144	4/7	4/11	5/1	do.
over 144	4/6	4/10	5/-	do.
Walls 6in thick			18/-	Per super yd
Do. 9in thick			29/1	do.
Suspended floors average 6in thick			19/8	do.

REINFORCING RODS (round) bent and placed. (Ex Mills)	Per cwt	¾in	½in	¾in	1in
In floors and beams	92/-	80/-	75/9	67/6	
In walls	98/-	85/-	79/9	70/6	
In columns	105/6	90/3	81/-	73/9	

FORMWORK and Supports (4 times use)—	Floor soffits	Beams	Walls	Columns
20/3 per yard	3/-	2/8	2/8 per super ft	

BRICKWORK

BRICKWORK per YARD superficial reduced to ONE BRICK in thickness (scaffold to add)—

	In 1 : 3 cement mortar
Flettons or other similar at 118/- per 1,000	42/-
Mild Stocks or do., at 174/- per 1,000	57/9
Second Stocks or do., at 329/6 per 1,000	66/-
Southwater engineering or similar bricks, at 400/6 per 1,000	78/-
Blue Staffordshire wire cut at 542/6 per 1,000	94/3
Deduct if 1 : 1 : 6 Cement-Lime mortar is used in lieu of 1 : 3 Portland Cement mortar	2d
Add if brickwork commences above ground level	4/9
Do. if in backing to masonry including cutting and waste for bonding	3/10
Do. If circular-on-plan	9/-
Do. If in underpinning	9/-

BRICKWORK IN THICKNESS NOT REDUCED—

Per yard superficial	Brick, on edge	Half-Brick walls	1 Brick finished fair both sides	1½in Hollow with 2in cavity and G.I. TIES
In Flettons or similar	18/3	23/4	43/1	49/3
In second stocks or do.	31/-	41/-	73/-	72/-
Add: for pointing as work proceeds, per side	1/9	1/11	1/9	1/9
Thickness to old walls, including cutting, toothing and bonding to same an average total thickness of ¾ brick	57/-	72/-		Per yd super do.
Do. all as last but an average total thickness of 1½ bricks	78/-	102/6		

WALLS BUILT IN SUPERIOR BRICKS—

In 1 : 3 Cement mortar, fair faced and pointed on both sides as the work proceeds:—	Half-Brick	One Brick	Per yd super do.
In first quality Stocks at 355/6	44/-	73/-	
In red facings at 330/-	38/6	67/9	
In blue pressed facings at 604/-	60/-	104/9	

GENERAL AND SUNDRY

Cut tooth and bond new brickwork to old	5/9 per ft
Damp proof course, double slate, horizontal	4/9 super
Do., as last, but vertical	5/9 do.
Do., bitumen, Hessian base, horizontal	1/- do.
Frames, bed and point in cement mortar, one side 4½d per ft run	
Window board of 6in by 6in by ¾in rounded on edge	4/3 do.
quarry tiles, bedded, pointed, cut and fitted	
Terra-cotta air bricks built in and pointed, including flue	9in by 6in 11/6 each
Chimney pots, plain red, set and flauched in cement mortar	1ft high 2ft high 24/- each
Metal windows, assembled, hoisted and fixed, lugs cut and pinned and frames bedded and pointed one side in cement mortar	Up to 5ft super 5ft to 10ft super
	15/2 18/9 each
	10ft to 20ft super 20ft to 40ft super
	28/5 47/- each

Leaving holes through walls for pipes and afterwards making good	Small pipes 3d per in in depth	Large pipes 6d per in in depth
Cutting do., and afterwards do.	11d do.	2/- do.
Cut mortices in brickwork or concrete for bolts or dowels and run in with cement grout	1/3 per in in depth, each	
Holdfasts of stout iron hoop bent, holed and screwed to frame and built in		1/7 each

MEASURED RATES—Continued**BRICKWORK**—Continued**FACING**—

Extra only over common brickwork (118/- per 1,000) for facing with superior bricks in *Flemish bond* and pointing as the work proceeds.

Rustic Flettons (150/-)	..	..	4/2 per yd super
White (220/-)	..	..	9/9 do.
First Stocks (355/-)	..	..	19/8 do.
Reds (350/-)	..	..	19/3 do.
Blue pressed (604/-)	..	..	38/3 do.

If built in English bond, Add 12½% to above.

If do., half-brick stretcher bond, Less 25% off above.

COPING—

All labour and material in forming brick-on-edge coping with two course of roofing tiles under and cement weather filets on both sides, built in cement and pointed as the work proceeds.

Per ft run	9in thick	14in thick
In picked Flettons	6/3	8/5
In first quality Stocks	8/-	12/-
In red facings	7/5	11/11
Plumbing angles	2d per ft run	
Fair cutting	1/-	do.
Fair rake cutting	1/7	do.
Fair circular cutting	1/7	do.
Fair squint or birdsmouth	1/11	do.

ARCHES

Extra over Fletton brickwork for forming window

head with red facing bricks set on end and with	ft run
4½in soffits and pointing	3/9
Do. for rubbed and gauged flat arch in red rubbers	ft super
set in putty with fine joints	19/-

PARTITIONS

(75 yards)	2in	2½in	3in
Concrete slab partitions in cement mortar	11/5	13/8	14/8
Hollow clay do.	13/5	15/6	18/-
Cutting and bonding at angles, inter-sections and ends	5d	ft run	

PAVING

Grano trowelled gauge 5 : 2	1in	1½in	1¾in
l by 5in skirting, square top and cove bottom	8/6	9/6	10/8 yd super
½in by 6in red quarry tile paving	..	..	2/10 ft run
½in by 6in do. skirting	..	..	32/- yd super
Jointless flooring, ½in thick	..	..	1/11 ft run
	..	..	20/- yd super

ASPHALT (normal conditions for 200 yds super and upwards)

½in pitch mastic floor in	B.S.	
one coat on felt underlay		
on prepared concrete base	1450/48	1375/47
Per yd super	13/6	Brown 15/- Mastic B.S.988
Unit		Red 16/6 Natural Rock B.S.1162/44
½in in two thicknesses on felt underlay on prepared concrete base	yd super	14/3
Do. in narrow widths	ft super	2/-
½in skirting 6in high, angle fillet at bottom splayed and turned in at top	ft run	2/4
External angles	each	6d
Internal do.	each	10d
Tanking or Damp Course	B.S.1097/43	B.S.1418/47
Vertical in two thicknesses	yd super	19/6
½in horizontal do.	yd super	13/-
Vertical in three thicknesses	yd super	26/6
1½in horizontal do.	yd super	19/-
Labour rounded external angle	per ft run	6d
Do. internal angle fillet	per ft run	10d
Do. double do.	per ft run	1/8
Collars to small pipes	each	3/6
Do. to large pipes	each	6/9

DRAINAGE

Per lineal yd	1ft in depth	5/10
Excavate trench, and plank and strut to sides, consolidate bottom to fall, return, fill and ram earth after drain is laid and load and remove surplus.	2 do.	9/11
In ordinary ground—moderately firm.	3 do.	22/9
(By hand)	4 do.	29/7
	5 do.	36/6
	6 do.	54/11
	7 do.	67/6
	8 do.	80/-
	9 do.	92/6
	10 do.	104/11
	11 do.	128/1
	12 do.	144/11

Portland cement (1 : 6)	Per yd run	
concrete bed under drain	4in	6in
pipes and benching up on 18in wide	20in wide	23in wide
both sides—6in thick	8/6	10/-
		12/3

SALT GLAZED SANITARY DRAIN PIPES

and lay and joint with Yarn and Cement Mortar in trench.

Quality	Quantity	4in	6in	9in
"Best"	2ton or more	3/1	4/7	7/7
	50 pieces and over	3/5	5/3	8/6
	under 50 pieces	3/6	5/4	8/10
"Best Tested"	2ton or more	3/9	5/10	9/2½
	50 pieces and over	4/2	6/3	10/2
	under 50 pieces	4/3	6/5	10/10
"British Standard"	2ton or more	3/3	4/10	8/-
	50 pieces and over	3/8	5/6	9/-
	under 50 pieces	3/9	5/7	9/4
"British Standard Tested"	2ton or more	3/10	5/9	9/7
	50 pieces and over	4/5	6/8	11/-
	under 50 pieces	4/6	6/9	11/5
Extra for bends "Best"	Contained in 2ton lots	4/2	6/3	16/6
Extra for junction "Best"				
—4in on 4in—6in on 6in—9in on 9in	do.	6/6	9/9	27/-½

IRON DRAIN PIPES—

Heavy cast iron socketed and laying and jointing in molten lead—

In main runs	4in	6in
In branches	14/5	20/2
	16/6	23/4
each		
Extra over last for bends and extra joint	30/2	66/1
Do. on do. for junctions and extra joint	45/4	86/-
Cast-iron gully with 10½in inlet and 4in outlet, composed of hooper and trap, and 9in extension piece and 10½in grating, and jointing all together, and jointing to drain and surrounding in concrete	183/-	—
Do. rain water, shoe with vertical inlet and inspection cover, and joint up and embed	85/9	143/6

MANHOLE SUNDRIES—

Salt glazed straight half-round main channels	4in	6in
Do. curved	each	6/-
Do. three-quarter section splayed channel bends (Barrows or similar)	do.	14/-
Heavy manhole steps galvanized	do.	18/-
Fix only manhole covers	do.	9/9
4in Mica flap, brass faced, f.a.i. valves and fix with molten lead joint	do.	11/6
	do.	41/-

ROOFER**CORRUGATED ASBESTOS SHEETS**

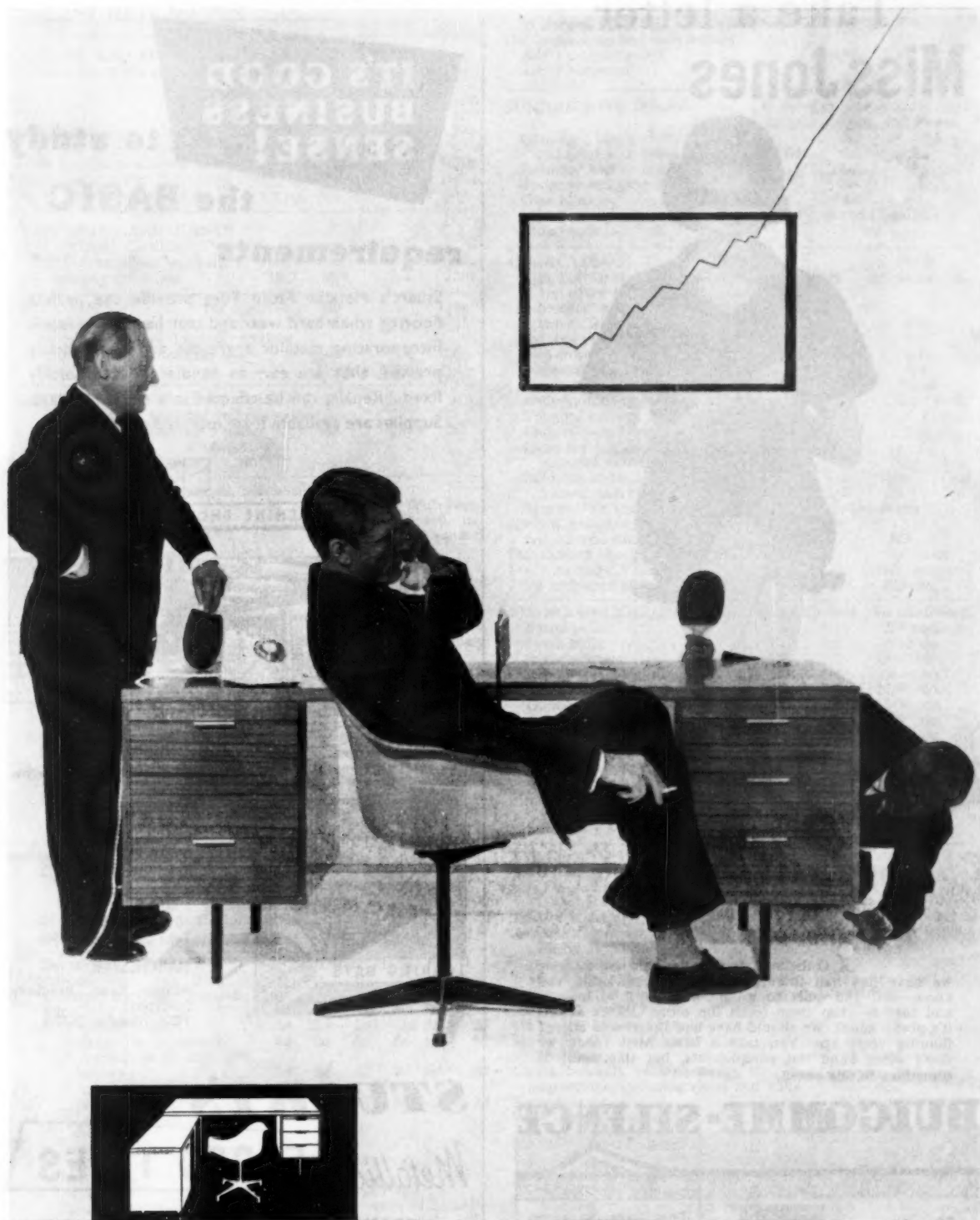
P.C. 8/3½ per super yd including side and end laps and fixing to wood	162/6 per square
Eaves filler pieces	2/6 ft run
Adjustable ridge	4/9 do.
Barge boards	3/4 do.
Plain roofing tiles, machine made, sand faced, 4in gauge nailed every 4th course with 1½in galvanized nails, to battens (measured separately)	263/- per square
Extra over last for top edge or abutment cutting	1/4 ft run
Do. for double course at eaves	2/5 do.
Do. for verges, undercloak, bed and point	3/9 do.
Do. Valley tiles including cutting and waste on both sides	11/3 do.
Do. Bonnet hips and do. bed and point	11/9 do.
Half-round ridge and bed and point	3/6 do.
Fixing soakers	1/8 dozen

Bituminous felt roofing in two layers, laid breaking joint and bedded with hot mastic

and finished with fine dry grit	12/6 yd
Do. but in one layer only	9/- super
WELSH SLATING	Per square
3in lap, 2 zinc nails to each slate	16" + 10" 18" + 10" 20" + 10"
	341/- 356/- 414/-

Additional labours

At tops, verges and abutments—straight	Per ft lineal
Do. —raking	1/9 1/10 2/2
At hips and valleys (each side)	2/7 2/9 3/1
At eaves, double course	3/6 3/8 4/2
Do. to falls	5/3 5/4 6/3



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CONTRACT DIVISION

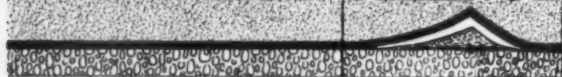
MOD. CONS. AT MOD. COST — new furniture from Robin Day is an event. His Hille Status Group is singularly important. Without compromise of line, function or construction, in its use of materials, its flexibility and variety, this furniture introduces stimulating new possibilities in office planning at low prices. Consider the desk above. Working areas can vary from 5'3" x 2'3" up to 7'0" x 3'0" and employ walnut, mahogany, teak, rosewood or heat and stainproof melamine, lipped with hardwood. Numerous pedestals. Metal frame and fittings, finished silver or black. And its price begins at £52. 5. 6. Several other desks, tables and cabinets, all capable of many arrangements, complete the group. Send for the catalogue or, better still, visit Hille showrooms at 39/40 Albemarle Street, London, W.1, Hyde Park 9576 or 24 Albert Street, Birmingham 4, Midland 7378 *internationally-honoured furniture for homes and offices*

Take a letter Miss Jones



TO the manufacturers of this new flooring we have just had fitted; it really is remarkable you know—soft and quiet to walk on, pleasant to look at and easy to keep clean (even the office cleaner admits it's pretty good). We should have had Bulgomme Silence flooring years ago. Yes, take a letter Miss Jones, we don't often hand out compliments, but this really is something to talk about.

BULGOMME-SILENCE



WE HAVE AN EXHIBIT AT THE BUILDING CENTRE

26 STORE STREET-W.C.

Send for full particulars to:

BERNARD J. ARNULL
UNITED KINGDOM COMMERCIAL MANAGER

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Three layers for perfect wear. Cellular rubber base, specially treated fabric interliner, and solid rubber wearing surface.

IT'S GOOD BUSINESS SENSE!

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requirements

Stuart's Metallic Faced Tiles provide the perfect flooring when hard wear and tear have to be faced. Incorporating metallic aggregate and hydraulically pressed, they are easy to handle and are quickly fixed. Repairs can be effected in a matter of days. Supplies are available from matured stock.



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GRANOLITHIC PAVING SPECIALISTS

FOR OVER A CENTURY

RECONSTRUCTED STONE, REINFORCED CON-
CRETE CONSTRUCTION AND DESIGN, STONE
RESTORATION.

MEASURED RATES—continued**FLOORS AND FLATS**Hollow tile *in situ* or pre-cast units hoisted, bedded and fixed—

	Superimposed load		Span	
	in lb per ft super		12ft	16ft
Per yd super	50	..	44/9	52/9
	100	..	47/-	59/-
	150	..	53/9	67/3

20lb has been allowed to cover dead load in surface, finish.
Fair edge to slabs 9d per ft run
Splay cutting and waste 1/9 do.

CARPENTER AND JOINER**SOFTWOOD CARCASSING—**Labour, materials, waste nails, Plates Joists Rafters Trusses
hoisting and fixing .. 19/2 20/8 22/4 25/6

FLOORING—		Per square—	1in	1in	1 1/2in
Rough boarding	144/-	171/-	203/-
Softwood batten flooring, straight joints, splayed headings	146/6	167/6	206/-
Do. grooved and tongued	167/6	189/6	244/-

SKIRTING—		Per ft superficial—	1in	1in	1in
Wrot softwood moulded skirting with grounds and backings plugged	4/-	4/8	5/3
Mitres to do. .. 3d per sectional in.
Fitted ends .. 2d do.

SASHES, fanlights, casements, borrowed lights, etc.—

Per ft super—		Without bars	With bars (2ft sup. in each square)
2in softwood rebated, moulded and fixed	..	3/6	6/5
Add if fitted with beads	..	6d	1/6
Add if hanging on butts	..	3/- each	..

WINDOWS, hung on lines—

Softwood casé frames, 1in inner and outer linings, 1 1/2in pulley stiles, 2in sashes, oak sill ..					
Overall size of frames—					
Per ft super	6ft	21ft	32ft	44ft	..
Windows as described	21/6	12/-	9/-	7/-	..
Add if sashes in squares, about 2ft super in each	..	1/8	2/2	2/2	..
Extra for hanging sashes with lines, weights and axle pulleys	38/-	66/-	77/-	88/-	..

FINISHINGS TO OPENINGS—

Per ft run—		Sectional area in in—			
Softwood linings, tongued at angles and tongued to frame including grounds and backings	..	1in	1in	1 1/2in	1 1/2in
Add if crosstongued	..	4/8	5/3	5/10	6/4
Softwood wrot rounded on front edge and with tongue at back window board including groove in sill and bearers	..	8d	8d	8d	8d
Add for ends to last notched, returned and rounded	..	3/10	4/4	5/-	5/6
	..	1/1	1/2	1/3	1/4

Per ft run—		Sectional area in in—					
Softwood wrot and fixed in bearers, backings, grounds, fillets, and similar	..	1	2	3	4	5	6
Add if in short lengths	..	4 1/2d	7d	9 1/2d	1/-	1/3	1/5
.. if plugged to brickwork	..	2d	2d	2 1/2d	2 1/2d	3d	3d
.. if framed as in legs and bearers	..	6d	6d	6d	6d	6d	6d
.. if rebated or grooved or beaded	..	3d	3d	4d	4d	6d	6d
.. if chamfered or rounded edges	..	2d	2d	2d	2d	2d	2d
.. if moulded in architraves, capping, etc.	..	..	..	..	3d	..	..
	..	..	..	..	6d	..	..

DOOR FRAMES—

Per sectional in—		Per ft run				
Softwood, wrot, reb. & rdd.	..	6in	8in	10in	12in	13 1/2in
	..	2/3	2/8	3/2	3/6	3/10

DOORS—Per ft super

Number of panels—		Per ft run					
2in Softwood square	1	2	3	4	5	6	..
framed and flat panels, both sides, on butts	..	6/10	7/5	8/-	8/4	8/10	..
1 1/2in do.	..	5/4	6/2	6/7	7/2	7/7	8/1
Add for each side	..	..	..	..	..	..	..
moulded	..	3d	4d	5d	6d	7d	8d
Add B.S. flush panelled	1/6	1/6	1/6 1/2	1/7	1/8	1/8	..

Per ft super—		1in	1in	1 1/2in	1 1/2in
In shelves, table tops, wrot and fixed	..	2/5	2/9	3/4	3/9
Do. in divisions and ends framed	..	2/9	3/1	3/8	4/3
Add if crosstongued	..	6d	6d	6d	6d
Add if buttoned	..	6d	6d	6d	6d

SUNDRIES—Per ft run—

In short lengths		In long lengths	Add for cups and screws
Glazing, beads mitred around and fixed with beads	..	6d	4d
Rounded heel or hollow	..	..	4d
Tongued and grooved angle	..	..	6d
Glue blocking	..	..	6d
Mitres	..	3d	per sectional in do.
Fitted ends	..	2d	..

STAIRCASE—

1 1/2in Softwood treads with moulded nosings		Per ft super
1in risers tongued both edges and glued, blocked and bracketed on and including two fir framed carriages	..	6/6
Do. but in winders	..	8/-
1 1/2in crosstongued landing on framed carriages	..	6/3
2in moulded string	..	5/6
2in do. ramped	..	14/-
Ends framed to newel	..	10/- each
Tongued heading joints	..	6/- do.
Ends of treads and risers housed to string	..	3/6 do.
Extra for curtail ends to steps, glued up and veneered riser and solid blocking	..	100/- do.
Balusters about 2ft 9in long, square and framed each end	..	1in 1 1/2in 1 1/2in 3/6
3 1/2in by 3 1/2in square newel, framed	..	4/- per ft run
African mahogany moulded 3in by 2in hand-rail. (Joints below)	..	9/3
Do. ramped 18in girth (do.)	..	54/- each
Do. wreathed do. (do.)	..	160/- do.
Joint or framed ends	..	12/- do.

FIXING ONLY IRONMONGERY

To deal		To hardboard
Barrel bolts	1/10	2/9 each
Flush bolts	5/6	4/10 do.
Sash fasteners	2/6	3/- do.
Rim locks and furniture	4/6	6/- do.
Mortice locks and do.	7/6	17/9 do.
Cupboard locks	2/9	3/5 do.
Casement fasteners	2/3	2/9 do.
Do. stays	2/3	2/9 do.
Grip handles	2/7	3/5 do.
Spring catches	2/3	2/9 do.
Cabin hooks	1/10	2/5 do.
Floor springs including oil	49/-	63/- do.
Overhead springs	14/7	20/- do.
Springhinges	14/-	19/- do.

SMITH AND FOUNDER

Basis framed steel joists and hoist and fix	81/6 per cwt
Do. but in compound girders	91/6 do.
Do. but in stanchions	93/6 do.
Trusses	130/6 do.
Additional cost per cwt over basic sections for following R.S.J.s	
9in by 7in, 10in by 8in, 12in by 8in, 14in by 8in, 16in by 8in, 18in by 6in, 18in by 7in, 20in by 6 1/2in, 20in by 7 1/2in	8d per cwt
22in by 7in, 1 1/1 cwt 4in by 3in ..	1/10 do.
5in by 3in, 5in by 2 1/2in ..	2/2 1/2 do.
6in by 3in, 24in by 7 1/2in ..	2/6 do.
3in by 3in, 2/9 cwt 4 1/2in by 1 1/2in	4/- do.
3in by 1 1/2in ..	4/4 do.
Cleats, brackets, packing pieces, etc., in connections, including rivets and bolts	174/- do.
Forged straps	132/- do.
Wrot iron balustrade	175/- do.

RAINWATER GOODS—

Round cast-iron pipe with socketed joints caulked with red lead and tow and fixing with pipe nails and gas barrel distance pieces to plugs in brickwork	2in 3in 4in
Extra for shoes	5/7 7/2 10/3
Do. junctions	8/5 10/9 15/7
Do. bends	6/7 8/6 10/10

RAINWATER GUTTERS

Per ft. run—		4in	5in	6in
Half round CI gutters jointed in red lead and bolted and fixed on iron brackets	..	3/11	4/8	5/9
Ogee do. All as last	..	4/4	5/-	6/3
Extra for stop ends	..	3/2	3/10	4/-
Do. angles or outlets	..	5/6	7/-	8/4

MEASURED RATES—continued**PLUMBER**

EXTERNAL—		Soakers	Flats	Flashings
4lb Milled Sheet lead per cwt		147/-	188/-	200/-
LEAD PIPES: running joints, etc.				
Per ft run		$\frac{1}{2}$ in	$\frac{3}{4}$ in	1in
Main	Fixed	4/5	6/0 $\frac{1}{2}$	8/3
Service	with	3/11	5/3 $\frac{1}{2}$	7/-
Waste	hooks	2/9	3/10	5/-
Bends	each	—	—	1/9
Solder joints	do.	9/8	11/8	13/5
Union and joints	do.	13/10	16/9	20/6
Stop valve and do.	do.	27/10	37/10	52/-
Bib valve and do.	do.	19/4	26/7	—
Ball valve and do.	do.	26/4	36/-	51/9
Sleeve and do.	do.	—	—	21/3

COPPER TUBES

		$\frac{1}{2}$ in	$\frac{3}{4}$ in	1in	1 $\frac{1}{2}$ in	2in
Tubes per ft run		2/9 $\frac{1}{2}$	3/4 $\frac{1}{2}$	4/5 $\frac{1}{2}$	5/4	8/10 $\frac{1}{2}$
Couplings: straight						
each		3/7	4/4 $\frac{1}{2}$	6/7	8/6	11/-
Do. Elbows each		5/8	6/8 $\frac{1}{2}$	8/10	11/3	16/9
Do. Tees do.		8/3	9/7	13/10	19/-	25/6
Do. Cisterns do.		4/8	6/3	8/4	10/6	14/4
Stop cocks do.		24/4	35/4	63/-	104/6	159/-

BLACK TUBING (Heavy)		$\frac{1}{2}$ in	$\frac{3}{4}$ in	1in	1 $\frac{1}{2}$ in	2in
fixed with pipe brackets						
Tubes, per ft run		2/7	3/-	3/7	4/6	5/-
Bends and fix, each		5/-	5/11	8/-	10/6	12/2
Tees and do.		5/5	6/9	8/-	10/2	12/5
Fire bends		2/2	2/9	3/1	3/4	4/5

Coated iron (M) weight L.C.C. soil and waste fixed with nails and distance	2in	4in
pieces and molten lead joints	5/9	8/4
Extra only for bends and joint	14/9	23/8
Do. junctions and joints	16/4	29/9
Do. cleaning doors	16/-	17/6
Domical wire guards	2/6	2/9

PLASTERER—		yd super	
Lime and hair	$\frac{1}{2}$ in	Render and set	7/3
Do.	1 $\frac{1}{2}$ in	Do. float and set	10/6
Sirapite	$\frac{1}{2}$ in	Skimming coat	4/-
Do.	$\frac{1}{2}$ in	Render and set	8/2
Do.	$\frac{1}{2}$ in	Render, float and set	10/2
Portland	$\frac{1}{2}$ in	Backing coat	4/10
Do.	$\frac{1}{2}$ in	Plain face	8/3
Do.	$\frac{1}{2}$ in	Floor screed	5/-
Keenes	$\frac{1}{2}$ in	Skimming coat	5/3
Dubbing	$\frac{1}{2}$ in	Thick or less	3/-
Metal Lathing	$\frac{1}{2}$ in	mesh by 24 Gauge	7/-
6in by 6in by $\frac{1}{2}$ in Earthenware Plain Glazed Tiles, in fair quantity white, and setting (on prepared screed)			45/-
Rounded edge. Extra over last			6d per ft run
Angles in do.			6d each
Cutting and fitting. Around pipes or clips			1/6 do.
Narrow widths. 3in to 6in wide. Add 75 per cent to plain surface.			
Do. 6in to 12in do. Add 40 per cent to plain surface.			
Sundry labours per ft lineal:—			
Quirk 3d.	Arris 4d.	Fair edge 3d.	Rounded edge 5d.
Flush bead 1/9.			
Mouldings—6d per in girth.			
Jointing new plastering to old 4d.			

POLISHING		6" Girth
NEW WORK—		Ft super
Staining, bodying-in and French Polish		3/-
Staining and wax polishing on hardwood		1/6
OLD WORK—		
Cleaning down old work and repolish		1/4
Stripping, preparing and repolishing		3/4

INTERNAL PAINTING

With white lead base in common colours, with brushes.

		Knot stop and prime	Prime and paint	Prime and paint	Add for each extra coat
ON WOOD—		prime	once	twice	2/4 yd super
General surfaces		2/9 $\frac{1}{2}$	5/7	8/-	

Running lengths not exceeding 3in wide	4 $\frac{1}{2}$ d	8 $\frac{1}{2}$ d	1/-	3 $\frac{1}{2}$ d	yd run
Do. 3in to 6in wide	5 $\frac{1}{2}$ d	11d	1/4	4 $\frac{1}{2}$ d	do.
Do. 6in to 9in wide	9d	1/6	2/1	7 $\frac{1}{2}$ d	do.
Do. 9in to 12in wide	11d	1/11	2/7	9 $\frac{1}{2}$ d	do.
Sash square each side	5/5	10/3	14/11	4/4 $\frac{1}{2}$	per do.
Do. in large squares	8/3	15/-	21/-	6/7	do.
Opening edges	7d	1/2	1/9	7d	each
Casement frames each side	6d	1/-	1/4	5d	yd run
Mullions or transoms do.	8d	1/5	2/-	7d	do.

ON PLASTER—

		One coat	Two coats	Three coats
Paint on surfaces		3/1	5/10	8/3
Do. on mouldings		3/5	6/5	9/2
Do. on enrichment		6/2	11/8	16/6

ON STEEL

Paint on structural steel	2/5	4/7	6/10	do.
Do. on roof trusses	2/8	5/1	7/8	do.
Do. on metal windows measured over all on both sides, divided into squares	3/5	5/9	8/7	do.
Do. divided into large squares	2/10 $\frac{1}{2}$	5/-	6/9	do.
Do. divided into extra large squares	2/5 $\frac{1}{2}$	4/2	5/10	do.
Do. on opening edges	10d	1/6	2/-	each
Do. on rain water pipe	10d	1/6	2/2	yd run
Do. on do. gutter	1/3	2/8	3/7	do.
Do. on small pipe	3d	6d	10d	do.

GLAZING (to New Work)

Polished Plate Glass ordinary substance (about $\frac{1}{16}$ in), glazing quality, in the following sizes, glazed complete—Per ft super in plates not exceeding 2ft super in each

Do.	5ft	do.	7/2
Do. (unless extra sizes) 45ft	do.	do.	8/3
Do. (unless extra sizes) 100ft	do.	do.	9/7
Do. (unless extra sizes) 100ft	do.	do.	10/2

Add extra price for glazing with screw beads or clips 5d per ft super. Do. if glazing bedded in washleather or velvet 9d per ft run.

SHEET GLASS, glazed, complete, per ft super, in new work: Ordinary quality clear, glazed to wood with putty:—

24oz as described	1/6 $\frac{1}{2}$
26oz do.	1/9 $\frac{1}{2}$
32oz do.	2/2
$\frac{1}{2}$ figured rolled, glazed to wood with putty	1/9 $\frac{1}{2}$
Do. in standard tints	2/7
No. 4 Fluted, glazed do.	2/8 $\frac{1}{2}$
$\frac{1}{2}$ in Reeded (narrow, broad, etc.)	3/0 $\frac{1}{2}$
Reedylite do.	2/2 $\frac{1}{2}$
Spotlyte do.	2/2 $\frac{1}{2}$
$\frac{1}{2}$ in Rough cast do.	2/2 $\frac{1}{2}$
$\frac{1}{2}$ in do. wired do.	2/6
$\frac{1}{2}$ in Georgian Rough Cast do.	2/6 $\frac{1}{2}$

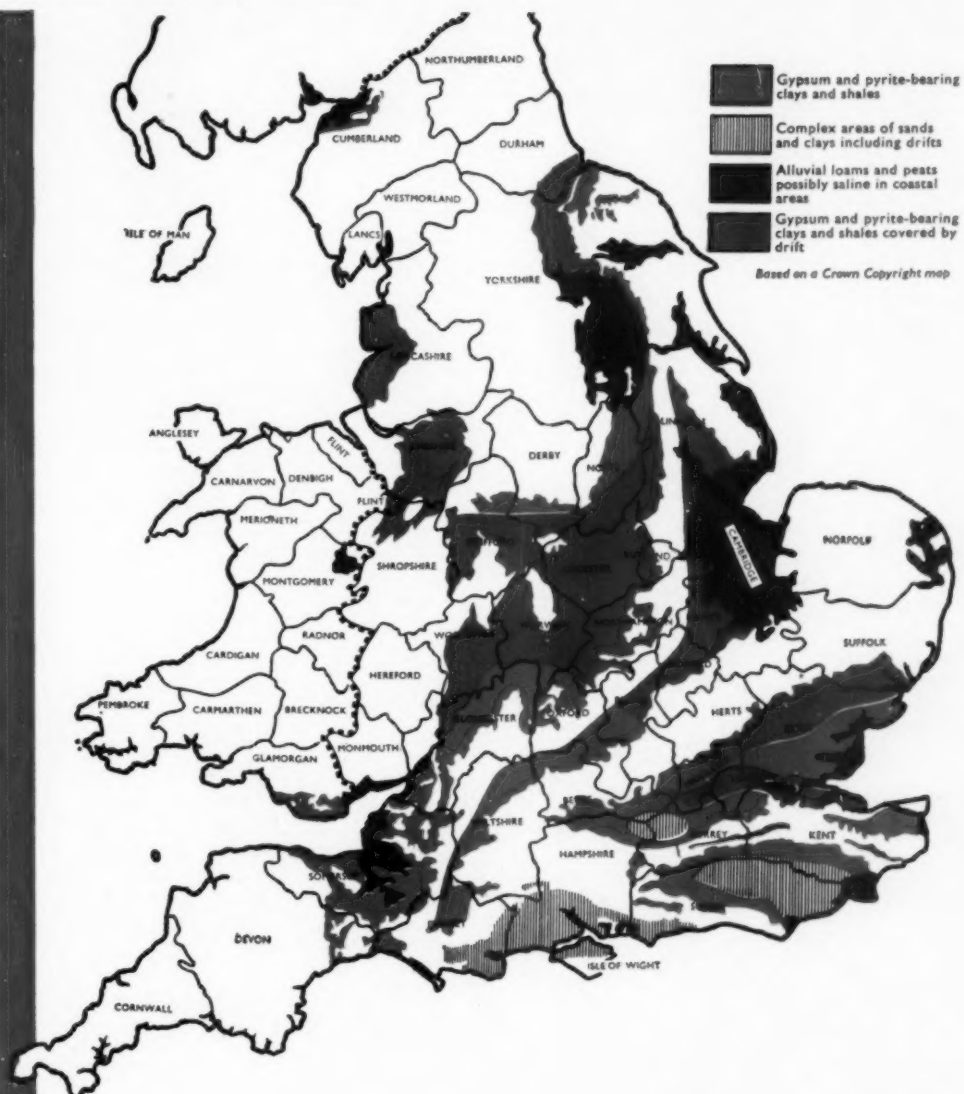
Add for glazing all as before but to steel to similar work as above, 1 $\frac{1}{2}$ d per superficial ft.

PAINTER AND DECORATOR**DISTEMPERING—In common colours, put on with brushes—ON PREPARED SURFACE**

		1 coat	2 coats	Add if required
per yd super—		(finish)	(under-coat and finish)	Sealing Stipp-ling
Ordinary distemper on flat surface of plaster		10d	1/6	6d
Washable do. on do. of plaster		1/-	1/10	6d
Add if in margins, narrow widths or panels		30%	30%	20%
Add if on mouldings		50%	50%	45%
Add if on enrichments		160%	160%	115%

PAPERHANGING

		Per Piece—Lining	Pattern
Hanging only—			
On walls		7/6	9/-
On stairs		10/3	12/-
On ceilings		9/-	10/6



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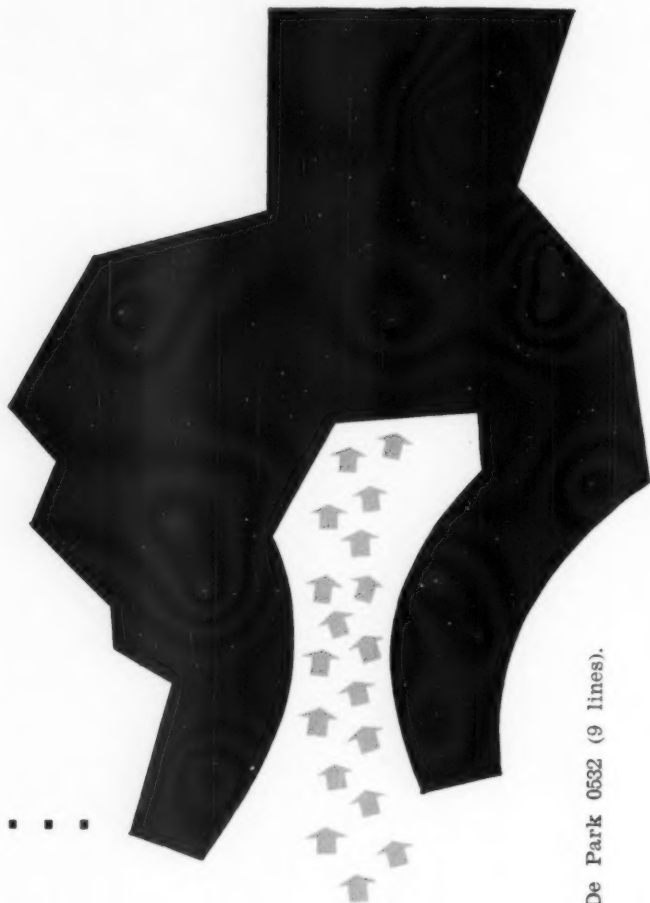
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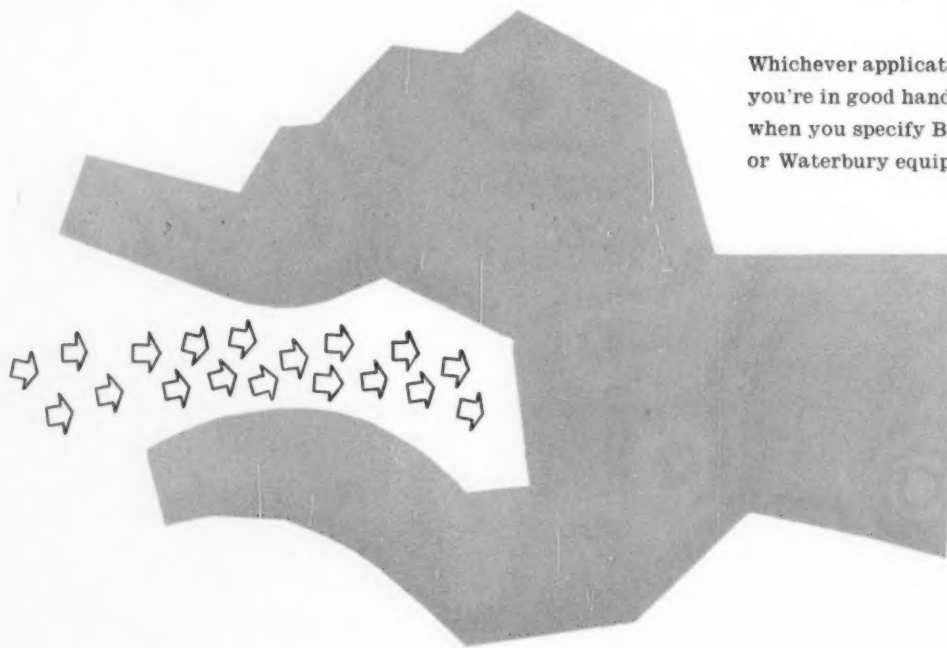
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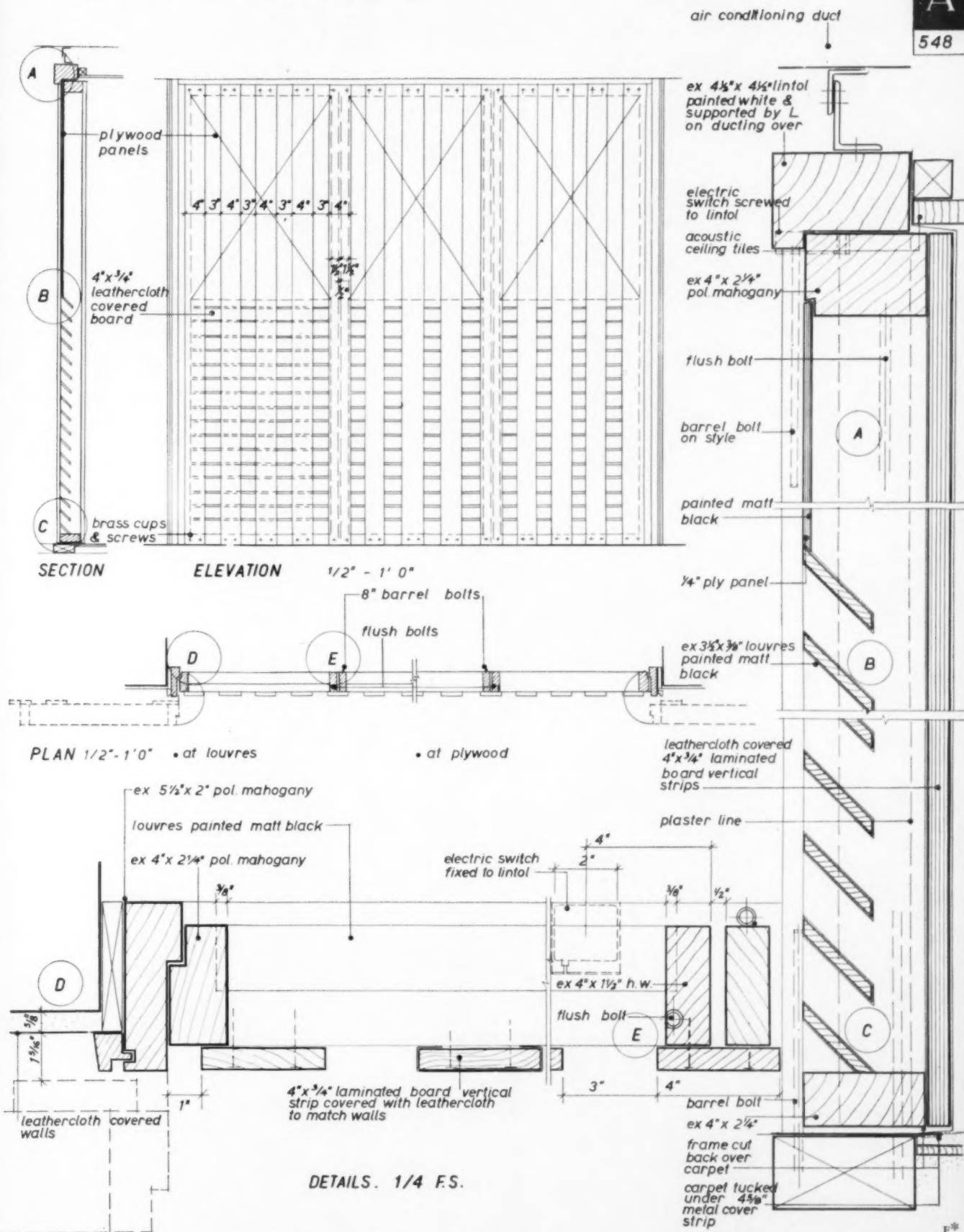


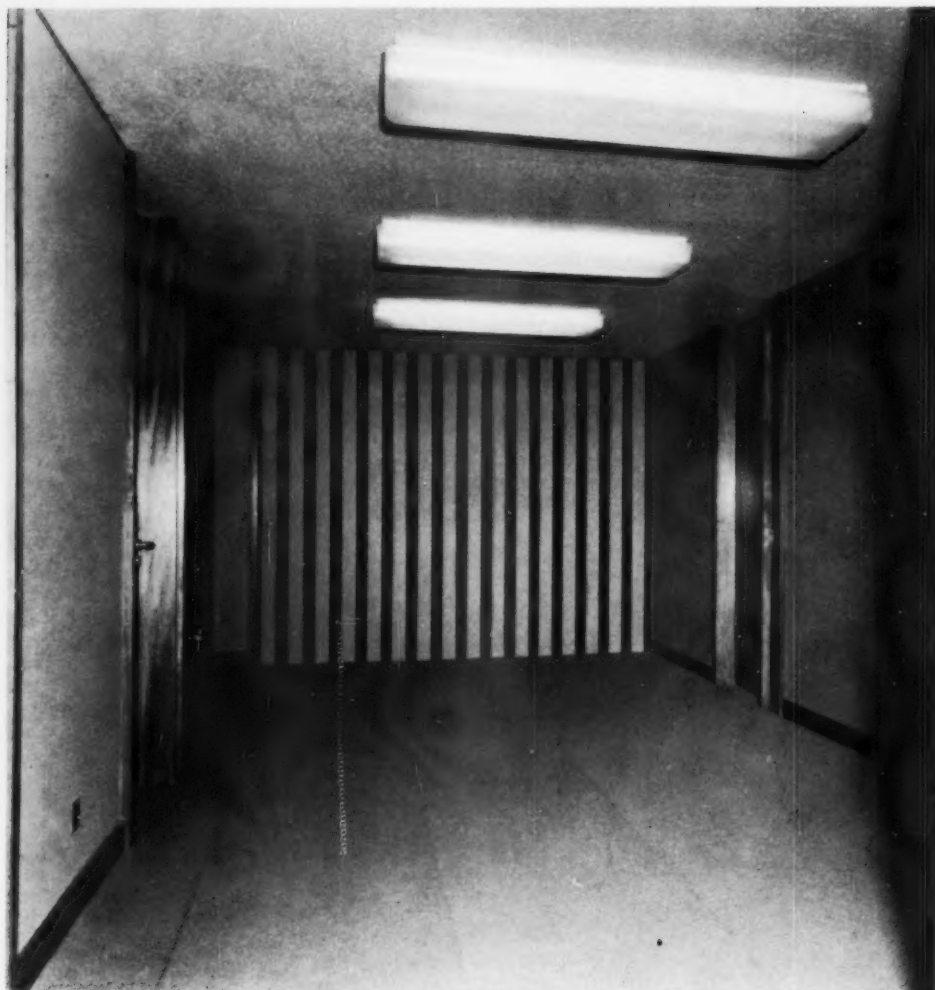
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The scotch derrick on the left is
part of the contractor's
erection tackle.

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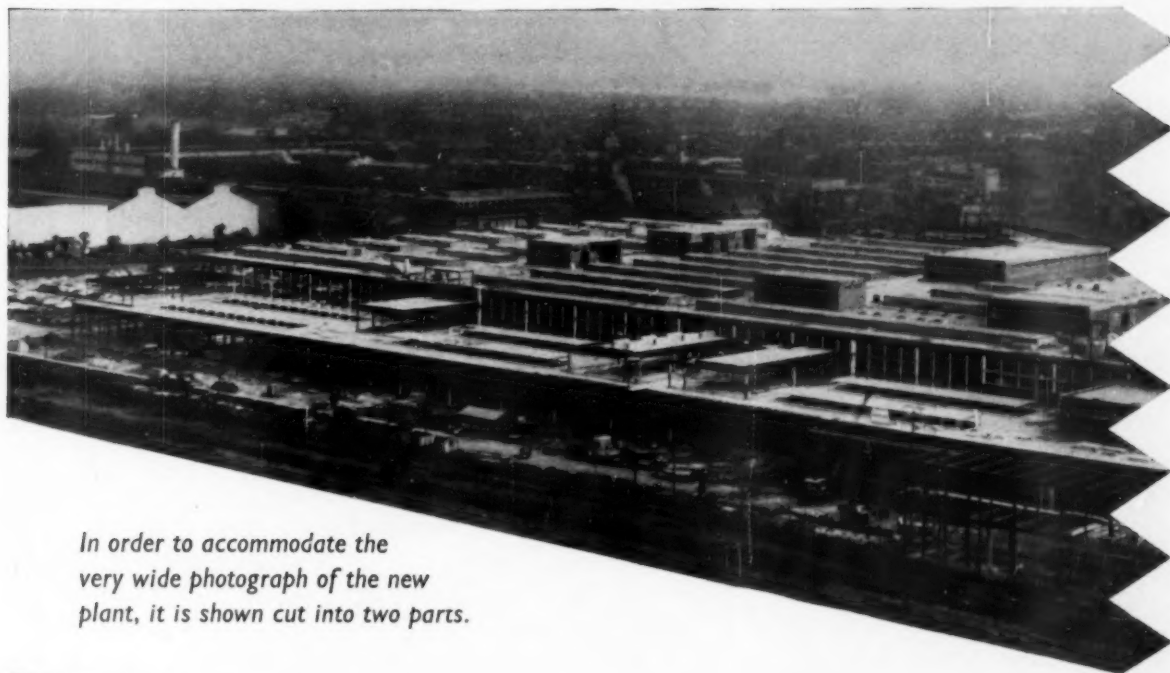
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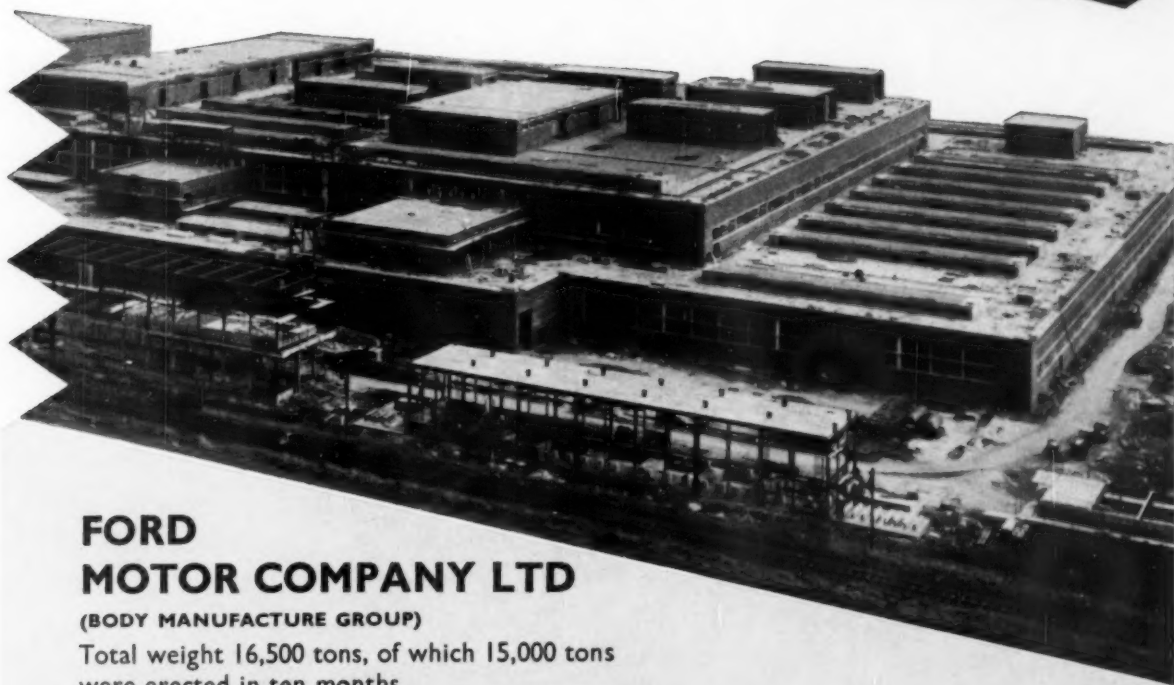
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In order to accommodate the very wide photograph of the new plant, it is shown cut into two parts.



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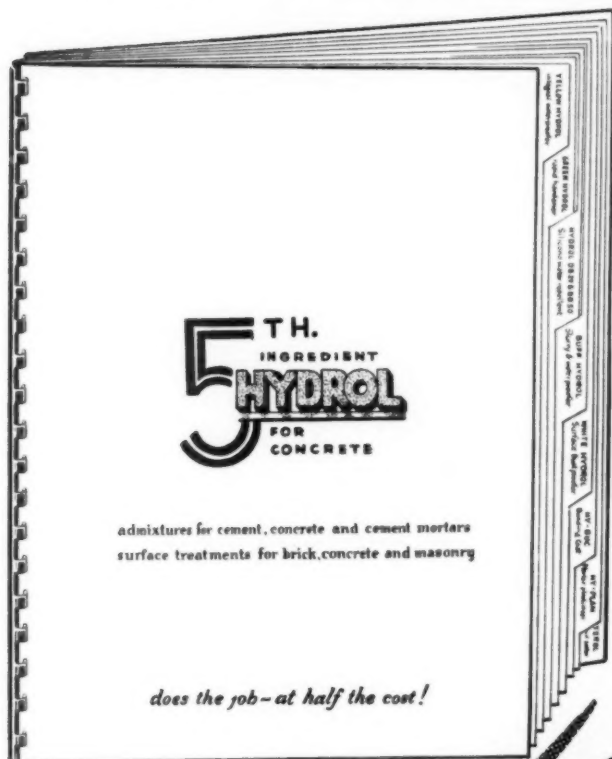
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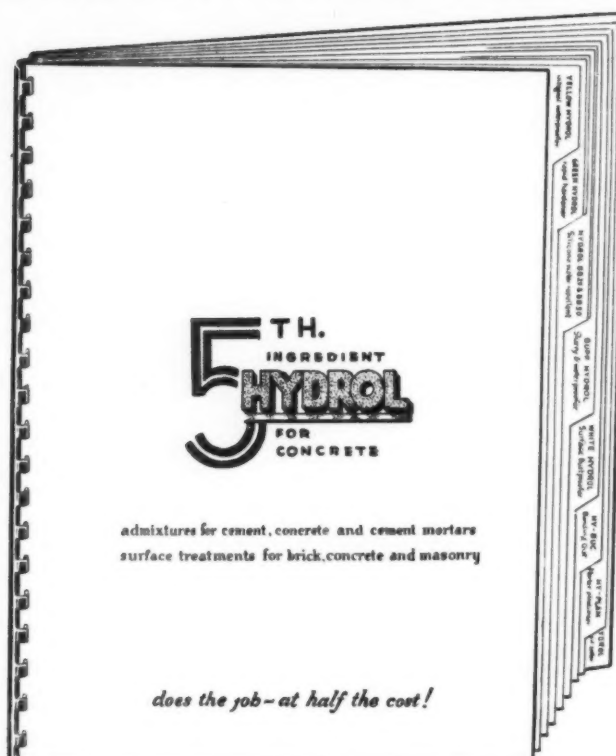
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CONTRACT • NEWS •

OPEN

BUILDING

ARGYLL C.C. (a) (1) Extension to school at Pennyghael, Mull; (2) Erection of ten houses, Lochgeilhead; (3) Eight houses, Ballygrant; (4) Eight houses at Keills, Islay; (5) 14 houses at Bruichladdich, Islay; (6) Public convenience, Craighouse, Jura; (7) public convenience, Mingary, Ardnamurchan. (b) County Architect, County Offices, Dunoon. (d) October 10.

BELFAST. (a) Erection of voluntary secondary intermediate boys' school (750 pupils), St. Augustine's, Ravenhill Road, for the Board of Governors, including school-meals' dining hall and kitchen and playing fields. (b) J. A. Tynan, quantity surveyor, 33 Malone Road, Belfast. (e) October 20.

BELFAST. (a) Extensions and alterations to St. Anne's Primary School, Rathmore, Dunmurry, for Rev. B. McGee. (b) John A. Tynan, quantity surveyor, 33 Malone Road, Belfast. (e) October 8.

BOGNOR REGIS U.C. (a) Fixed-price tenders. Improvements to 16 council houses. (b) Engineer and Surveyor, Town Hall. (c) 2gn. (e) October 16.

BOLTON B.C. (a) School Hill redevelopment area. 30 one-bedroom flats in one three-storey block. Willows Lane estate. 23 two-bedroom houses in pairs and blocks, and six and seven one-bedroom flats in blocks of four. Alternation tenders are required. (1) Fluctuations in respect of labour and materials and (2) Fixed-price tenders. (b) Housing Department, Town Hall. (c) 2gn. (e) October 8.

BOURNEMOUTH B.C. (a) Fixed-price tenders for relaying of certain asphalt-covered flat roofs at the Winter Gardens. (b) Borough Architect's Office, Room 106, Town Hall. (c) 1gn. (e) October 13.

BRIGHTON B.C. (a) Erection of 66 flats and four shops at Albion Hill redevelopment, stage 2. (b) Borough Surveyor, Engineer and Planning Officer, 26-30 King's Road, Brighton. (c) 2gn. (e) October 27.

CARDIFF. (a) Fixed-price tenders for erection of 57 dwellings at Fern Place estate, in two groups (1) 45 flats in three storey construction. (2) 12 houses. (b) City Architect, 12 Park Place. (c) 2gn. each contract, which must be tendered for separately. (e) October 8.

CARDIFF C.C. (a) Fixed-price tenders for erecting 184 dwellings in three contracts, which must be tendered for, separately, at Manorbier Crescent. (1) 67 dwellings; (2) 23 dwellings; (3) 94 dwellings. (b) City Architect, 12 Park Place. (c) 2gn each contract. (e) October 8.

address it is the same as the locality given in the heading (c) deposit (d) last date of application (e) last date and time for submission of tenders. Full details of contracts marked * are given in the advertisement section.

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CASTLEBAR U.D.C. (a) Construction of extensions to Castlebar Sewerage Scheme for Castlebar Urban District Council. (b) Nicholas O'Dwyer & Son, 6 Burlington Road, Ballsbridge, Dublin. (c) 10gn. (e) October 17.

DUBLIN C.C. (a) Howth Road Improvement Scheme—Section Six—Reconstruction of approximately 2½ mile of Howth Summit Road, together with the construction of an extensive surface water sewerage system for Dublin County Council. (b) City Treasurer, Exchange Buildings, Lord Edward Street, Dublin. (c) 10gn. (e) October 16.

EASTBOURNE B.C. (a) Internal adaptations and provision of new library fittings at Eastbourne Training College, "Queenswood", Darley Road. (b) Borough Surveyor, 2 and 4 Saffrons Road, Eastbourne. (c) 2gn, payable to Eastbourne Corporation. (e) October 14.

EAST RIDING OF YORKSHIRE C.C. (a) Erection of additional classroom and alteration to existing school at Wawne, near Hull. (b) County Architect, County Hall, Beverley. (c) 2gn. (e) October 13.

EGHAM U.C. (a) 20 single-bedroom flats in five blocks and 13 single-bedroom bungalows in four blocks, including roads and sewers and ancillary works in Bond Street, Englefield Green. (b) Engineer and Surveyor, Fire Station Buildings, High Street, Egham, Surrey. (c) 2gn. (e) October 17.

GLASGOW. (a) Extensions and alterations at Woodburn House Gardening School, Rutherglen. (b) Architectural and Planning Department, 20 Trougate, Glasgow, C.1. (e) October 8.

GREAT YARMOUTH B.C. (a) (1) Erection of 20 aged persons' bungalows and one two-storey warden's unit at Caister Road. (2) Blocks of four shops, two shelters, and covered way at Martin Parade. (b) Borough Engineer, Town Hall. (c) 2gn. (e) October 9.

HALSTEAD U.C. (a) Erection of 16 pairs of semi-detached houses on two separate sites adjoining Parkfield estate. (b) Mitchell & Weston, architects, 38 Churchgate Street, Bury St. Edmunds, Suffolk. (c) 2gn. (e) October 5.

HEMSWORTH R.C. (a) Erection and completion of (1) South Elmsall, 72 dwellings; and (2) South Kirkby, 36 dwellings. (b) Engineer and Surveyor, Brierley Hall, Brierley, near Barnsley. (c) 4gn. (e) October 5.

HEREFORD C.C. (a) Erection of 10 detached houses and 12 garages, Green Lane. (b) Norman Roberts, Architect (Housing) Town Hall. (c) 2gn. (e) October 12.

HEYWOOD B.C. (a) Erection of a mortuary at Hind Hill Street. (b) Borough Engineer and Surveyor's Department, Municipal Buildings, Heywood. (c) 2gn. (e) October 8.

ISLE OF WIGHT JOINT CREMATORIUM COMMITTEE. (a) Erection of a crematorium and superintendent's house near Whippingham Station, Isle of Wight. (b) C. A. F. Sheppard, architect, 65b Union Street, Ryde, Isle of Wight. (c) 2gn. (e) October 16.

LONG EATON U.C. (a) 61 dwellings and alternatively 159 dwellings, at Draycott Road, Sawley housing scheme, No. 21h. (b) Engineer and Surveyor, Town Hall, Long Eaton. (c) 2gn. (e) October 8.

MANCHESTER C.C. (a) Extension and alteration to New Moston secondary school. (b) City Architect, P.O. Box 488, Town Hall. (e) October 7.

MIDDLESBROUGH B.C. (a) One group of 34 dwellings at Saltersgill. (b) Borough Engineer. (c) 2gn. (e) October 12.

MIDDLESBROUGH B.C. (a) St. Hilda's section 3a. Erection of 59 three-storey flats and maisonnettes and six houses, with roads and sewers work, all in one contract. (b) Borough Engineer, Municipal Buildings. (c) 2gn. (e) October 12.

NORTHAMPTON B.C. (a) Erection of 21 bungalows at the Priory, Billing Road East, Northampton. (b) Borough Architect, Guildhall. (c) 2gn. (d) Immediately. (e) October 19.

NORTH RIDING C.C. (a) Erection of a new wing to the Old People's Home at Ashfield, Malton. (b) County Architect, Northallerton. (c) 2gn. (e) October 28.

NORTHWICH. (a) Erection of 28 houses and 16 single-storey dwellings on Shipbrook Road site. (b) Engineer and Surveyor, The Council House, Northwich, Ches. (e) October 12.

PORTRUSH U.C. (a) Construction of approximately 2,590ft of sea wall, together with the repair and modification to an existing mass concrete sea wall at West Bay. (b) Sir William Halcrow & Partners, 10 Malone Road, Belfast. (c) £5. (e) October 12.

READING B.C. (a) Erection of five shops with maisonnettes over and 12 garages and two public conveniences, all in traditional construction in Wensley Road, Coley Park estate. (b) Borough Architect, Town Hall. (c) 2gn. (e) October 6.

REIGATE B.C. (a) Conversion of "Max Gate", Redstone Hill, Redhill, into eight flatlets, and "Rookfields", Blandford Road, Reigate, into 12 flatlets. Fixed-price tenders. (b) The Borough Surveyor, Town Hall. (e) October 5.

SALFORD C.C. (a) Public toilets at Ordsall Park, Trafford Road 5. (b) City Engineer and Surveyor, Town Hall, 5. (c) 2gn. (e) October 6.

SHOREHAM-BY-SEA. (a) Erection of seven traditional garages in one block of four and one of three, St. Julian's Close. (b) Surveyor, St. Wilfred's Ham Road, Shoreham. (e) October 8.

SOUTHWELL R.C. (a) Erection of 28 bungalows and communal block, off Yew Tree Road and Alder Grove, Ollerton. (b) Architect and Surveyor, 7 Westgate, Southwell, Notts. (c) 2gn. (e) October 19.

STEPNEY B.C. (a) Smithy Street housing scheme. Erection of 15 blocks of flats and maisonnettes, 246 dwellings in all. (b) Riches & Blythin, architects, 16 Northumberland Avenue, London, W.C.2. (c) 10gn, cheques payable to Stepney Borough Council. (e) October 6.

STOCKPORT B.C. (a) Erection of a kitchen at St. Michael's R.C. Secondary School, Nangreave Road. (b) Borough Architect, Town Hall. (e) October 7.

SURBITON B.C. (a) Erection of a public convenience next the public library, Moor Lane, Chessington. (b) The Quantity Surveyor, Mr Irving Todd, 44 Welbeck Street, London, W.1. (e) October 5.

TOTTENHAM B.C. (a) Talbot Close. Erection of 24 old persons' dwellings. (b) Borough Engineer, Town Hall, Tottenham, N.15. (c) 2gn. (d) October 5.

TOTTENHAM B.C. (a) Tewkesbury estate, Contract No. 7. Erection of one ten-storey block of 60 flats, with reinforced concrete frame. (b) Borough Engineer, Town Hall, N.15. (c) 2gn. (d) October 5.

WALLASEY B.C. (a) Erection of five four-storey blocks of maisonnettes containing 42 housing units. One block of four storeys containing eight shops with 16 maisonnettes and six flats over, and 11 garages. Together with paths, drains, link units and ancillary works in the Church Street area. (b) Borough Architect, Town Hall, Wallasey. (a) Erection of a hostel for 50 persons at Twickenham Drive. (b) As above. (e) October 20.

WANDSWORTH B.C. (a) 36 flats in two three-storey blocks at Prince's Way, Southfields. (b) J. Noel Martin, Town Clerk, Municipal Buildings, giving details of experience, plant and technical

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WELWYN R.C. (a) Alterations and extensions to 14 houses in West Terrace, Welwyn, and Station Road, Digswell. (b) H. Stutchbury, Clerk of the Council, Welwyn, Herts. (c) 2gn. (e) October 19.

WILMSLOW U.C. (a) (1) 20 pre-cast concrete garages and site works, at Twinners Road, Lacey Green. (2) Six garages in brickwork and site works, Alderley Road. (b) Engineer and Surveyor, Green Hall, Wilmslow. (c) 2gn. (e) October 5.

YORK C.C. (a) Provision of changing rooms at Mill Mount Grammar School playing fields. (b) City Architect, 8 St. Leonard's Place, York. (c) £1. (e) October 5.

PLACED

Notes on contracts placed state locality and authority in bold type with (1) type of work (2) site, (3) name of contractor and address, (4) amount of tender or estimate. † denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

BIRMINGHAM. (1) Erection of a refectory and staff club for the University of Birmingham. (2) Edgbaston. (3) B. Whitehouse & Sons Ltd., of Edgbaston, Birmingham.

CITY OF LONDON CORPORATION. (1) Blocks of flats from 20 storeys to four storeys in height, with shops, laundries, etc. (2) Avondale Square, London, S.E. (3) Pauling & Co. Ltd., 26 Victoria Street, London, S.W.1. (4) £945,321.

DUKINFIELD B.C. (1) 160 dwellings. (3) Owen Pickford & Partners Ltd., Hillcrest Road, Stockport. (4) £164,369.

EAST SUFFOLK C.C. (1) Second instalment of College of Further Education. (2) Lowestoft. (3) Tooley & Youngs Ltd., Stalham, Suffolk. (4) £75,735.

ELLESMERE PORT, CHES. B.C. (1) Nine shops, 14 dwellings. (2) North Whitby estate. (3) Thomas Warrington & Sons Ltd., Station Road, Ellesmere Port. (4) £50,868.

GLASGOW C.C. (1) Several works. (2) Garteraig Garage. (3) A. A. Stuart & Sons (Glasgow) Ltd., London Road, Glasgow, E.2. (4) £183,262.

GREAT YARMOUTH B.C. (1) Central library. (2) Middlegate area. (3) Buch Builders Ltd., Mile Cross Lane, Norwich. (4) £122,328.

GUILDFORD B.C. (1) Erection of a Civic Hall. (3) Dove Bros., Ltd., Cloudestley Place, London, N.1. (4) £250,000.

HARLOW, ESSEX. (1) New factory for Educational Supply Association. (2) Harlow New Town. (3) Fromson Construction Co., of Canada Ltd., of Byfleet, Surrey. (4) £90,000.

LANARKSHIRE C.C. (1) 108 houses. (2) East Parkhead, Bellshill. (3) Atholl Houses Ltd., Park Circus, Glasgow, C.3.



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LANCASHIRE C.C. (1) Second contract for secondary school. (2) Kirkby Ruffwood. (3) R. Costain & Sons, (Liverpool) Ltd., Barlows Lane, Fazackerley, Liverpool. (4) £264,450. (1) Phase 3 of the College of Further Education. (2) Morecambe. (3) W. Eaves & Co. Ltd., Blackpool. (4) £230,959. (1) Erection of junior and infants' schools. (2) Heywood. (3) John Laing & Son Ltd., London, N.W.7. (1) Erection of county school. (2) Chadderton Hall. (3) Haldean Building Co. Ltd., Middleton Junction, Lancashire. (4) £33,762. (1) Extensions to secondary school. (2) Ulverston Victoria. (3) J. Leck & Sons (Barrow) Ltd., Barrow-in-Furness. (4) £91,470.

LEEDS C.C. (1) Five ten-storey blocks each of 60 flats. (2) Meynell Street, Holbeck Moor, and two blocks at Ebor Gardens, York Road. (3) Myton Ltd., London and Hull. (4) £500,000 approximately.

LEWISHAM B.C. (1) 40 flats, four houses. (2) Eliot Bank, Forest Hill. (3) Rush & Tompkins Ltd., Station Road, Sidcup, Kent. (4) £114,000.

LONDON E.C. (1) Eight-storey warehouse, offices and showrooms, for Bradbury Greatorex & Co. Ltd. (2) Aldersgate Street, Half Moon Court, etc. (3) Humphreys Ltd., Knightsbridge, London, S.W.7.

LONDON E.C. (1) Office block 100ft high. (2) Site of the Old Newgate Prison, Holborn Viaduct Station. (3) F. G. Minter Ltd., 4 Buckingham Gate, London, S.W.1.

NEWCASTLE REGIONAL HOSPITAL BOARD. (1) Stage three of the new general hospital. (2) Whitehaven, Cumberland. (3) John Laing & Son Ltd., of Carlisle and London.

NEWCASTLE-ON-TYNE C.C. (1) Erection of six blocks of multi-storey flats. (2) Walker district. (3) Leslie & Co. Ltd., 20 Peel Street, London, W.8 and Darlington. (4) £1,166,711.

OXFORD C.C. (1) 102 dwellings. (2) Blackbird Leys estate. (3) John Laing & Son Ltd., Mill Hill, London, N.W.7. (4) £194,297 negotiated tender (1) 63 houses and 26 houses. (2) Blackbird Leys estate. (3) W. J. Simms, Sons & Cooke Ltd., Beddington Lane, Croydon. (4) £103,498 and £49,840. (1) 40 houses. (2) Harberton Mead. (3) Morris Builders (Oxford) Ltd., Aylesbury. (4) £78,549. (1) 28 maisonnettes. (2) North Oxford "B" site. (3) Morris Builders (Oxford) Ltd. (4) £56,902. (1) 44 maisonnettes and 12 old people's dwellings. (2) Barns Road. (3) Morris Builders (Oxford) Ltd. (4) £86,078 and £16,013.

SWANSEA B.C. (1) Three blocks of 11-storey flats. (2) Sketty Park estate. (3) George Wimpey & Co. Ltd., Hammersmith, W.6. (4) £416,987.

TYNEMOUTH B.C. (1) 71 houses. (2) Various sites. (3) Whittall (Builders) Ltd., Pilgrim Street, Newcastle-on-Tyne.

WEST SUSSEX C.C. (1) Secondary school. (2) Crawley, Tilgate. (3) Y. J. Lovell & Son Ltd., Horsham. (4) £189,352.

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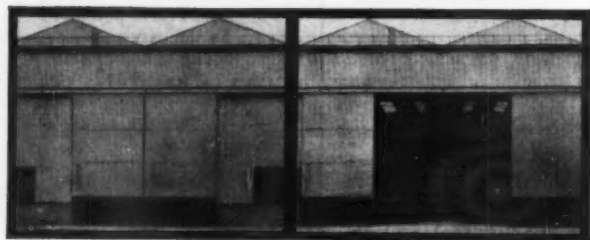
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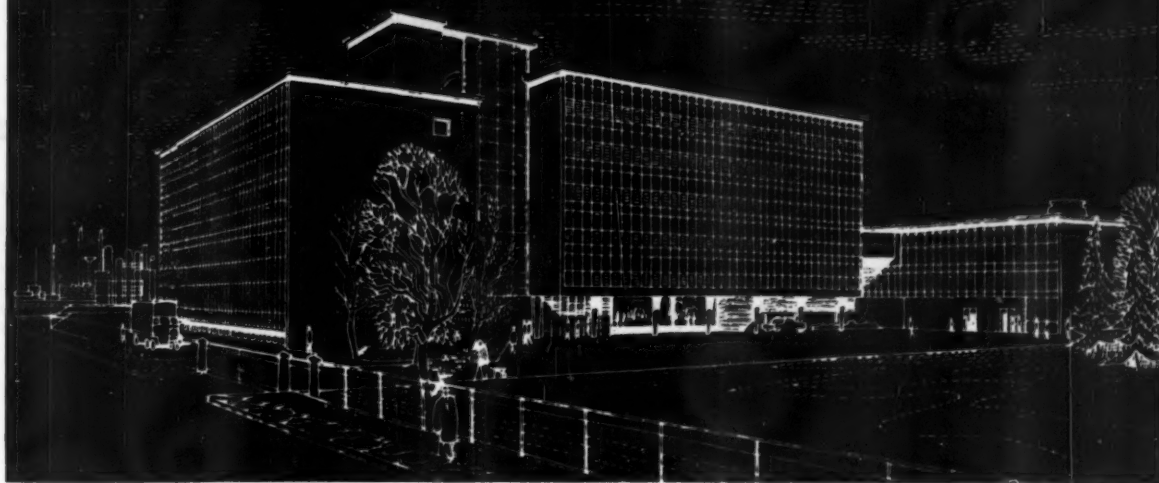
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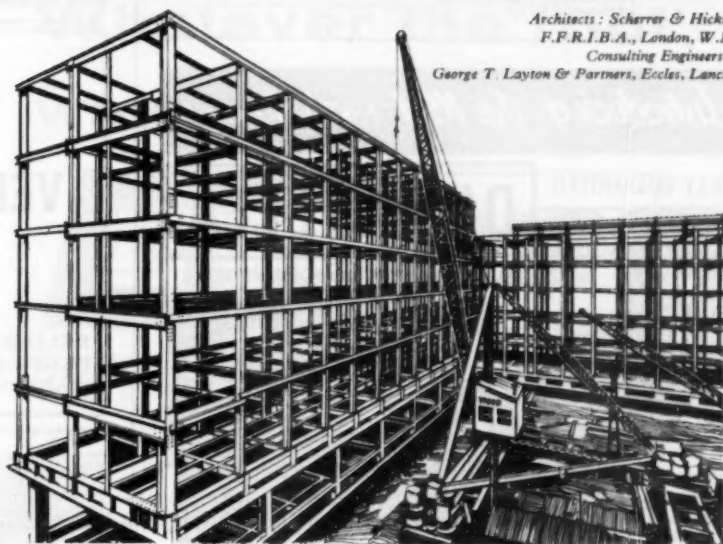
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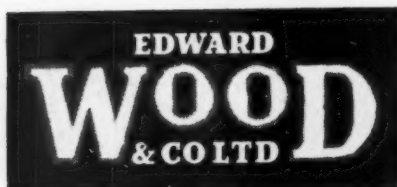


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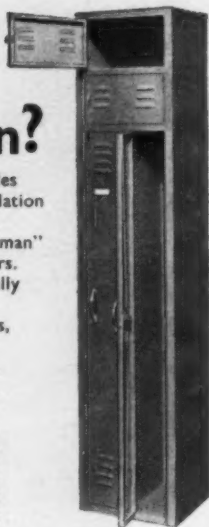
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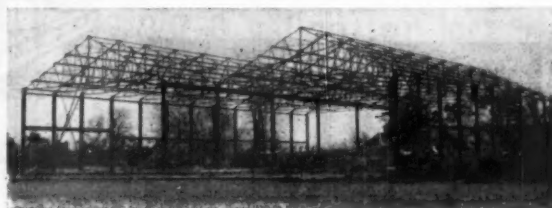
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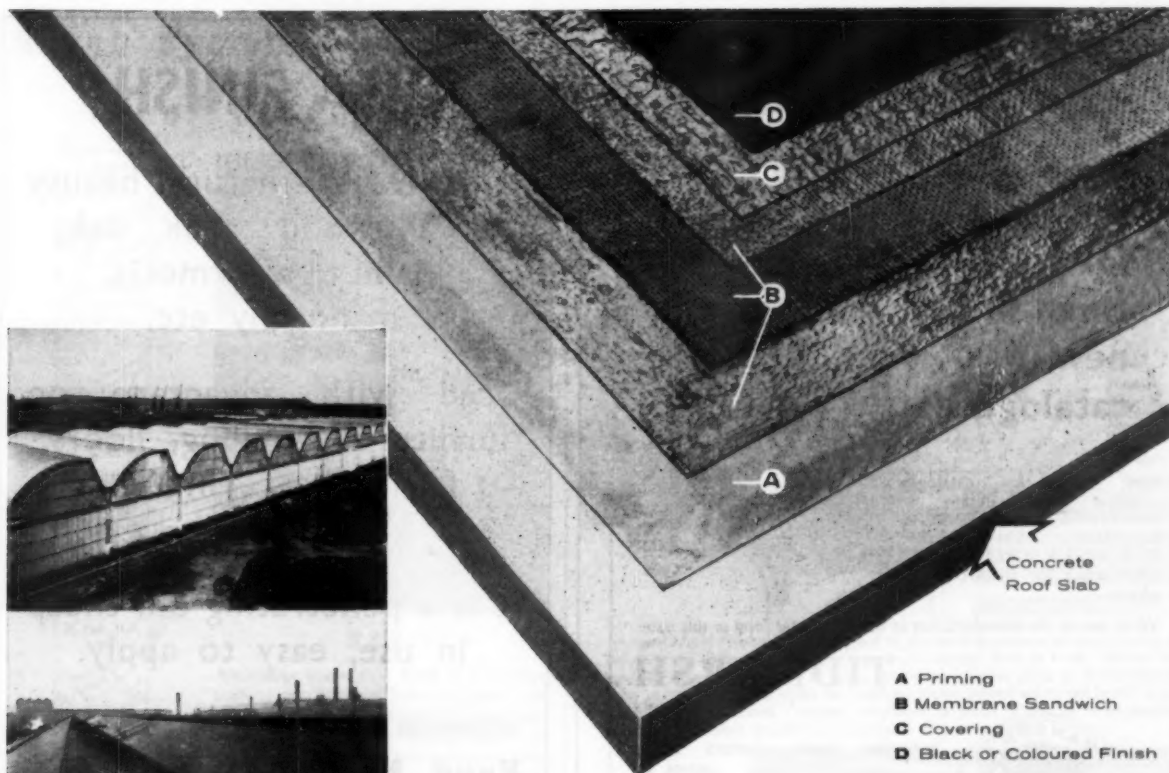
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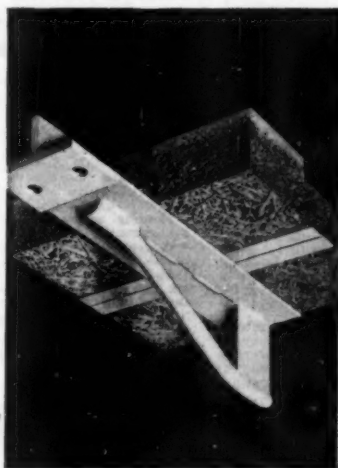
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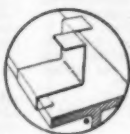
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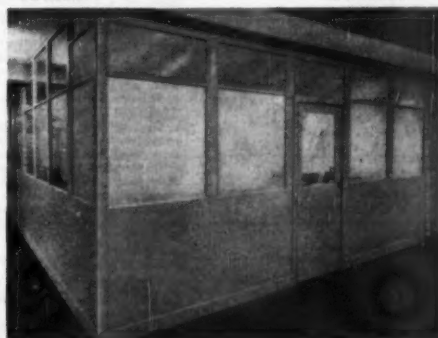


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APPOINTMENTS

The Royal Infirmary of Edinburgh and Associated Hospitals ARCHITECTURAL ASSISTANT

APPLICATIONS are invited from experienced candidates preferably holding the Intermediate Certificate of the R.I.B.A. Starting salary £525/£605 per annum, according to age and experience. Apply to Personnel Officer, Royal Infirmary, Lauriston Place, Edinburgh, 3. [5584]

Thurrock U.D.C. (Engineer and Surveyor's Dept.)

REQUIRE Architectural Assistant under Architect to the Council, Salary: APT I/II, £610/£880 p.a. Good architectural experience necessary. Applicants must be capable of preparing working drawings in all categories and should have passed the Intermediate Examination of the R.I.B.A. The Council have interesting projects in hand, including an indoor swimming bath. Appointment pensionable. Applications, stating age, qualifications, and experience, and quoting three referees, to Clerk of the Council, Council Offices, Grays, Essex, by October 6, 1959. Canvassing disqualifies. Relationship with members or senior officers of the council must be disclosed. [5609]

Hampshire County Council ASSISTANT ARCHITECT (Special Scale £785/£1,070)

REQUIRED in the County Architect's Department. Candidates must have passed Part I and II of the R.I.B.A. Final Examination, or equivalent, and have had at least five years' experience (including the period spent in theoretical training). The commencing salary will be determined by experience and ability. The post is pensionable and subject to a satisfactory medical report. Assistance given with removal and other expenses in approved cases.

Application forms (send s.a.c.) returnable by October 6, from the Clerk of the County Council, The Castle, Winchester. [5619]

Borough of Harrow TECHNICAL ASSISTANT—BUILDING BY-LAWS

APPLICATIONS are invited from qualified Building Inspectors for the above appointment in the Department of the Borough Engineer and Surveyor, within APT, Grade II (£765/£880 per annum), plus London weighting.

The duties will be mainly in an office advising applicants regarding the Council's Building By-laws and other matters normally dealt with in the Building Inspectors' Section.

The appointment will be subject to the Local Government Superannuation Acts and the National Joint Council's Scheme of Conditions of Service. Housing accommodation is not offered. Contributions towards removal expenses will be considered.

Application forms, obtainable from me, must be returned not later than October 17, 1959.

D. H. PRITCHARD,
Town Clerk.

Town Clerk's Office,
Harrow Weald Lodge,
92 Uxbridge Road,
Harrow, Middx. [5647]

Borough of Harrow PLANNING ASSISTANT

APPLICATIONS are invited for the appointment of an Assistant in the Department of the Borough Engineer and Surveyor at a salary within APT Grade I (£610/£765 per annum), plus London weighting.

Applicants should be competent draughtsmen, some experience in a planning office will be an advantage, but is not essential.

The appointment will be subject to the Local Government Superannuation Acts and the National Joint Council's Scheme of Conditions of Service. Housing accommodation is not offered but contributions towards removal expenses will be considered.

Application forms, obtainable from me, must be returned not later than October 17, 1959.

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APPOINTMENTS (cont)

County Borough of West Ham Borough Architect and Planning Officer's Department CHIEF ASSISTANT PLANNING OFFICER £1,320/£1,485 p.a.

APPLICATIONS invited from Town Planners possessing drive, initiative and ability, preferably with experience in replanning urban areas, to be in charge of the Town Planning Section of the Department.

Application forms and particulars from Thomas E. North, O.B.E., F.R.I.B.A., Dist.T.P., M.T.P.I., Borough Architect and Planning Officer, 70 West Ham Lane, Stratford, E.15, returnable by October 12, 1959. [5606]

County Borough of East Ham Borough Engineer's Department

APPLICATIONS are invited for the following temporary appointments:

Senior Assistant Architect, Grade IV, £1,065/£1,220.

Architectural Assistant, Grade II, £765/£880. London weighting is paid in addition, and salaries in excess of the minima may be paid, according to qualifications and experience. The appointments are for work on a new Technical College and are expected to be for a period of not less than three years.

Further details and application forms returnable by October 9, 1959, from the Town Clerk, Town Hall, East Ham, E.6. [5635]

County Borough of East Ham ARCHITECTURAL ASSISTANTS Grade I, £610/£765

LONDON weighting is paid in addition. Salaries in excess of the minima may be paid according to qualifications and experience.

Subsistence allowances may be granted over a reasonable period to the persons appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Further details and application forms returnable by October 9, 1959, from the Town Clerk, Town Hall, E.6. [5634]

County Borough of Southend-on-Sea Education Committee Municipal College

Principal: T. L. Morgan, M.Sc., A.M.I.C.E., A.M.I.Struct.E.

APPLICATIONS are invited for the appointment of a Lecturer in the School of Architecture.

Candidates should be Associates or Fellows of the R.I.B.A. and/or hold a degree or Diploma in Architecture and should have had at least three years' experience in professional practice. The appointment is for a Studio Master with special interest in Building Services.

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Further particulars and form of application may be obtained from the undersigned (stamped addressed foolscap envelope).

Completed forms to be returned to the Principal, Municipal College, Victoria Circus, Southend-on-Sea, within fourteen days of the appearance of this advertisement.

D. B. BARTLETT,
Chief Education Officer.

Education Office,
Warrior Square,
Southend-on-Sea. [5628]

Aycliffe Development Corporation (New Town of Newton Aycliffe) ARCHITECTURAL ASSISTANT

AN Assistant Architect is required for neighbourhood and town centre work.

The salary for this appointment will be in accordance with the Whitley Council for New Towns staff scale determined by the qualifications and experience of the successful applicant.

Housing accommodation if required.

Applications, giving details of age, qualifications, education and experience, together with the names of two referees to reach the undersigned by Saturday, October 10, 1959.

A. V. WILLIAMS,
General Manager.

Newton Aycliffe,
Near Darlington,
Co. Durham. [5629]

APPOINTMENTS (cont)

County Borough of Great Yarmouth Schools Architect's Department

APPLICATIONS are invited from Associate Members of the R.I.B.A. for a Senior Assistant Architect within Special Grade (£785/£1,070).

Candidates must have a thorough knowledge of school design and construction with at least five years' experience.

Housing accommodation will be available to the successful candidate if married. Assistance with removal expenses may be made in suitable cases.

Full details of present and past appointments, age, qualifications and experience, together with the names of two referees, should reach the Schools Architect, 22 Euston Road, Great Yarmouth, by October 6, 1959.

D. G. FARROW,
Chief Education Officer.

22 Euston Road,
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County Borough of Croydon ARCHITECTURAL ASSISTANT

APPLICATIONS are invited for this appointment in the School Architect's section from persons of the R.I.B.A. Intermediate examination standard.

Salary according to qualifications and experience between £630 per annum and £910 per annum on a scale rising (when fully qualified) to £1,100 per annum.

Application forms from Chief Education Officer, 19 Katharine Street, Croydon. Closing date October 19, 1959.

E. TABERNER,
Town Clerk. [5642]

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ASSISTANT—Intermediate to Final—required for country practice, salary according to experience. Write, with experience, age and salary, to Forsyth Lawson, Cunningham & Partners, 30 Horse Fair, Banbury. [5639]

ASSISTANTS of Intermediate and Final standard required for large and small educational jobs, some overseas; at first in London and later in Guildford office. Write to Frank Rutter, F.R.I.B.A., 2 Finchley Road, London, N.W.8. [5636]

ASSISTANT WANTED with some office experience. Write brief details to Eric Lyons, Mill House, Bridge Road, Hampton Court, Surrey. [5602]

A KEEN ASSISTANT of Intermediate to Final standard, who would like to escape from London, required by C. F. Boniface, A.R.I.B.A., Bank Chambers, High Street, Egham, Surrey. [5615]

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LESLIE GOODAY, A.R.I.B.A., F.S.I.A., requires Assistant of Intermediate standard. Apply in writing to: 17 Sloane Street, London, S.W.1. [5625]

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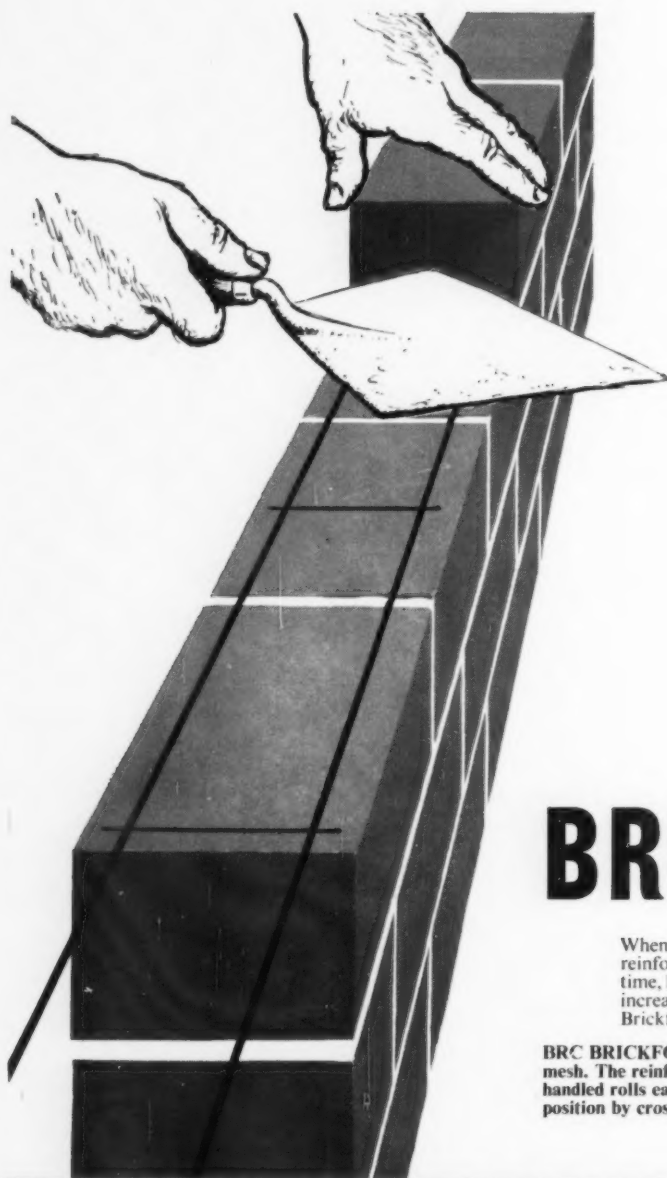
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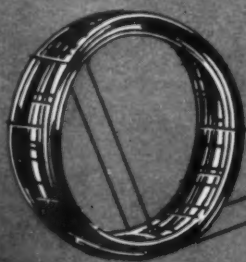
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